



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
S.P.G.Chidambara Nadar - C.Nagammal Campus  
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF INFORMATION TECHNOLOGY

VALUE ADDED COURSE DETAILS

2023 - 2024

R2021

WEB APPLICATION - JAVA PROGRAMMING

12.02.2024 - 17.02.2024

Note: Soft copy of content is shared via the following link

<https://kcetvnrorg->

[my.sharepoint.com/personal/gayathriit\\_kamarajengg\\_edu\\_in/\\_layouts/15/onedrive.aspx?login\\_hint=gayathriit%40kamarajengg%2Eedu%2Ein&id=%2Fpersonal%2Fgayathriit%5Fkamarajengg%5Fedu%5Fin%2FDocuments%2FVAC%2DWeb%20Application%20%2D%20JAVA%20Programming&view=0](https://my.sharepoint.com/personal/gayathriit_kamarajengg_edu_in/_layouts/15/onedrive.aspx?login_hint=gayathriit%40kamarajengg%2Eedu%2Ein&id=%2Fpersonal%2Fgayathriit%5Fkamarajengg%5Fedu%5Fin%2FDocuments%2FVAC%2DWeb%20Application%20%2D%20JAVA%20Programming&view=0)

*S. Gayathri*  
VAC Coordinator

[MYS. S. GAYATHRI]

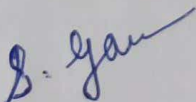
Verified.  
VAC Incharge  
*S. Anitha*  
AP-CSE

  
HOD/IT


[DT. E. VAKAIMALAR]

### Value Added Course Details

1. Academic Year : 2023 -2024
2. Regulation : R2021
3. Department Name : Information Technology
4. Name of the Value Added Course : Web Application – JAVA Programming
5. Number of Credits : 2
6. Category : Theory / Lab / Hands-on / Skill Based
7. Detail of the Joint Organization : Silicon Software Services
8. Resource Person Details : Mr. Jeejo Vetharaj  
Trainer,  
Silicon Software Services,  
Coimbatore  
9487251024  
jeejovetharaj@gmail.com
9. Three Member Committee details : 1) Dr.E.Vakaimalar, Associate Professor &  
HoD/IT.  
2) Dr.R.Arthy, AP/IT  
3) Mr.D.Vendhan, AP/IT
10. VAC Coordinator Details : Mrs.S.Gayathri, AP/IT
11. Duration : 45 Hours
12. Period : 12.02.2024 – 17.02.2024
13. Venue : New IT Lab [Windows Block]

  
VAC Coordinator

[MRS. S. GAYATHRI]

  
Dean Academic Course

  
HoD/IT

[DR. E. VAKAIMALAR]



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**Department of Information Technology**

**Checklist for File Contents**

**Value Added Course**

**Web Application - JAVA Programming**

Sl. No.	Items	Available [Yes / No]
1.	Institution Approval Copy	Yes
2.	Circular	Yes
3.	Syllabus Copy with Course Outcome	Yes
4.	BoS Approval	No
5.	Three Member Committee MoM	Yes
6.	Geo-Tagged Photos	Yes
7.	Certificate of all the participants	Yes
8.	Examination Schedule	Yes
9.	Question and Answer Keys	Yes
10.	Attendance Sheet	Yes
11.	Evaluated Answer Script	Yes
12.	Test Report	Yes
13.	Mark Statement	Yes
14.	Grade Sheet	No
15.	Feedback Form	Yes
16.	Feedback Analysis & Report	Yes
17.	Programme Summary / Report	Yes
18.	Students Oral Feedback (Recorded Video)	Yes
19.	VAC Short Video	Yes



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**Department of Information Technology**

**1. Institution Approval Copy**

**Value Added Course**

**on**

**Web Application - JAVA Programming**



# KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



S.R.G.Chidambara Nadar - C. Nagammal Campus,  
S.R.G.C. Nagar, K. Vellakulam - 625 701, Near VIRUDHUNAGAR, Madurai District.  
Accredited by NAAC with 'A' Grade

Submitted to the SECRETARY for approval through the PRINCIPAL

Book No.

IT

SL No. 55

Date 23/09/24

Approval for Value Added course - prog.

The following value Added course has been planned and recommended for II year IT students


1. web Application [JAVA programming]  
Silicon Software services

Batch I - 45 students =  $45 \times 1,800 = 81,000/-$

Number of days = 6 days [12/09/24 to 17/09/24]

Trainer accomodation with food at Hostel  
morning and Afternoon - Tea & snacks

  
Signature of Faculty  
02/10/24

  
HOD  
22/2/24

  
PRINCIPAL  
4/2/24

## OFFICE USE

- 1) Budget allotted
- 2) Amount committed / Spent sofar
- 3) Balance available

: Value added Course

:

:

OM

Treasurer

Secretary



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**Department of Information Technology**

**2. Circular**

**Value Added Course**

**on**

**Web Application - JAVA Programming**



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## DEPARTMENT OF INFORMATION TECHNOLOGY

### Value Added Course on “Web Application – JAVA Programming”

Circular

10.02.2024

Our department has planned to organize a Value Added Course on “Web Application – JAVA Programming” for II year Information Technology students from 12.02.2024 to 17.02.2024. Students are advised to attend the course with fullest energy and gain knowledge.

Venue : New IT Lab (Windows Lab)  
Trainer Name : Mr. Jeejo Vetharaj  
Company Name : Silicon Software Services, Coimbatore.

  
HoD / IT

To be read in:

1. II IT A & II IT B Class Rooms



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**Department of Information Technology**

**3. Syllabus Copy with Course Outcomes**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

To  
Head of the Department,  
Information Technology,  
Kamaraj College of Engineering & Technology,  
Virudhunagar.

Sub: Web Application Training

Dear Sir,

Greetings from **SILICON SOFTWARE SERVICES!**

We are pleased to submit this proposal for conducting a **JAVA Application** Training program through offline mode. **SILICON SOFTWARE SERVICES** conceived with the vision of building skilled manpower pool for industry requirements with a focus on Technical Skills, Hands-on practice and standardized assessments. **SILICON SOFTWARE SERVICES** is one among the leading software Training companies in South India to render Technical (Coding), Technologies and Aptitude services in Training.

**Training Plan:**

**Day - 1**

- a. Introduction to Java programming
- b. Understanding of syntax of class, variable and method
- c. Usage of object creation

**Day - 2**

- a. Understanding the concepts of Inheritance in the application and its rules to follow when we write our code
- b. Knowing the rules of polymorphism – method overriding and method overloading and its real application
- c. Usage of encapsulation in application development
- d. Why do we use abstraction and interface in the application development and need to understand the rules



### Day - 3

- a. Knowing the constructor is much important in industry.
- b. Understanding the reality of package creation manually and its usage in projects
- c. Exploration of APIs (Application Programming Interfaces) documentation, its very important to write code/application in the industry
- d. To understand APIs clearly, need to understand the Math class

### Day - 4

- a. Clear understanding of String, StringBuffer and StringBuilder classes and its usages to build applications.
- b. Gathering the knowledge of Exception handling and how it must be used in coding/application development
- c. Creation of various files and usage of those files with build-in classes

### Day - 5

- a. Knowledge in wrapper classes much useful to understanding the build-in data structures of Java
- b. Understanding the build-in data structures to development of real-world applications.

### Commercial:

Fee: Rs. 1800 per student (Inclusive of GST)

### Requirements:

Trainers' accommodation with Food

Thanks & warm regards,

Rajendran Subramanian B.E., M.Tech (IIT-Kanpur),.

Founder,

Silicon Software Services.

[www.siliconsoftwareservices.com](http://www.siliconsoftwareservices.com)

9566776109

*S. Gan*  
VAC coordinator  
[MRS. S. LAKSHMI]

*3/2/24*  
HOD IIT  
[DR. E. VAKAIMALAR]



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**Department of Information Technology**

**4. BoS Approval**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

**Not Included**



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## Department of Information Technology

### 5. Three Member Committee Details

#### Value Added Course

on

#### Web Application – JAVA Programming

S. No.	Name	Designation	Role
1	Dr. E. Vakaimalar	Associate Professor	Head of the Department
2	Dr. R. Arthy	Assistant Professor	UG Coordinator
3	Mr. D. Vendhan	Assistant Professor	Senior Faculty Member

**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**VALUE ADDED COURSES**  
**THREE MEMBER COMMITTEE - MEETING MINUTES**

Date: 09.02.2024

A meeting regarding the execution of value added course on “Web Application – JAVA Programming” from 12.02.2024 to 17.02.2024 was organized on 09.02.2024 among the three member committee of the value added course.

Venue: HoD Cabin

Time: 1.30 pm

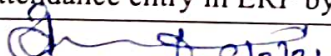
**Members Present:**

1. Dr. E. Vakaimalar , Associate Professor & Head/IT
2. Dr. R. Arthy, AP/IT
3. Mr. D. Vendhan, AP/IT

The minutes of the meeting is given below:

S. No.	Items discussed	Remarks
1	Accommodation, Hospitality for the Resource Person	It is planned to provide food inside the campus and hostel stay with the prior permission from Principal
2	Number of Students	II IT A & B - 45
3	Internet Facility	Ensured the internet availability
4	Software Required	Venue is provided with sufficient number of good quality machines supporting installation of required software
5	Laptops	Students were advised to bring their own laptop if available
6	Photo Arrangement	Arranged (Geo Tagged)
7	Feedback Sessions	It is planned to receive feedback online via forms Oral feedback will be recorded after the session
8	Test	Students were intimated to be prepared for project presentation. Candidates with marks greater than 50 during assessment will be given VAC course completion certificate
9	Technicians Support	Ensured the availability of technicians
10	Venue	HoD Cabin
11	Attendance	Discussion on 100% attendance and it is decided that attendance entry in ERP by VAC Coordinator

  
VAC Coordinator

  
UG Coordinator

  
HoD / IT

[MR. D. VENDHAN]

[DR. R. ARTHY]

[DR. E. VAKAIMALAR]



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**Department of Information Technology**

**6. Geo Tagged Photos**

**Value Added Course**

**on**

**Web Application - JAVA Programming**



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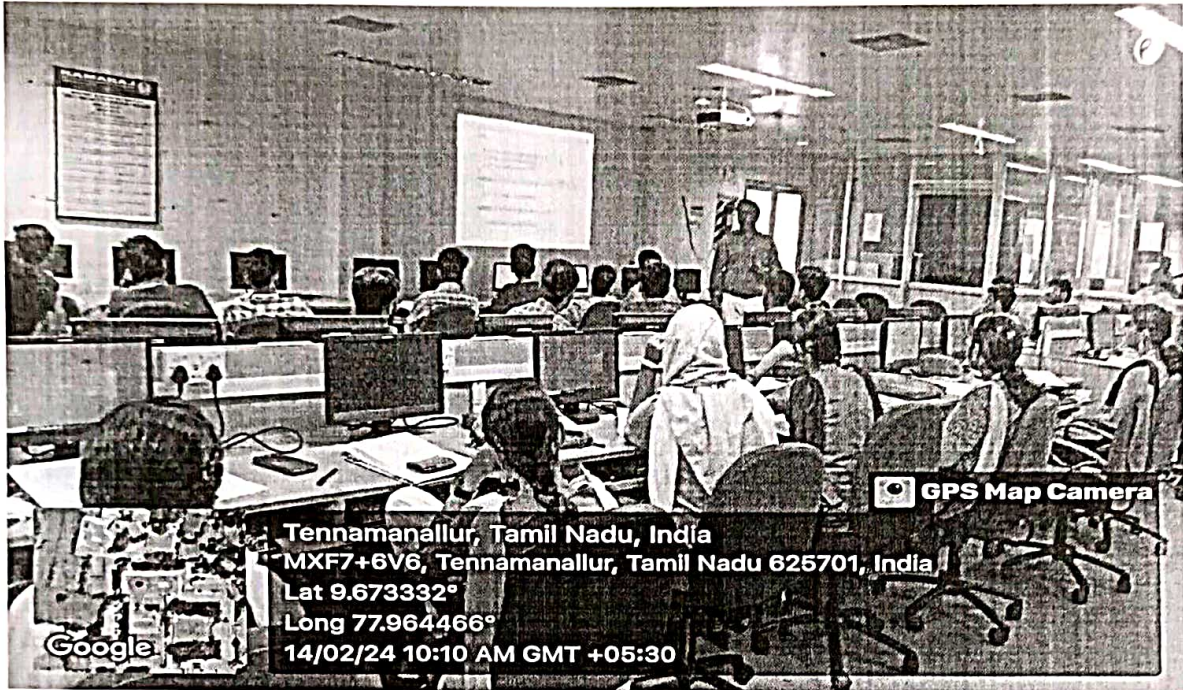


Day1 – 12-02-2024

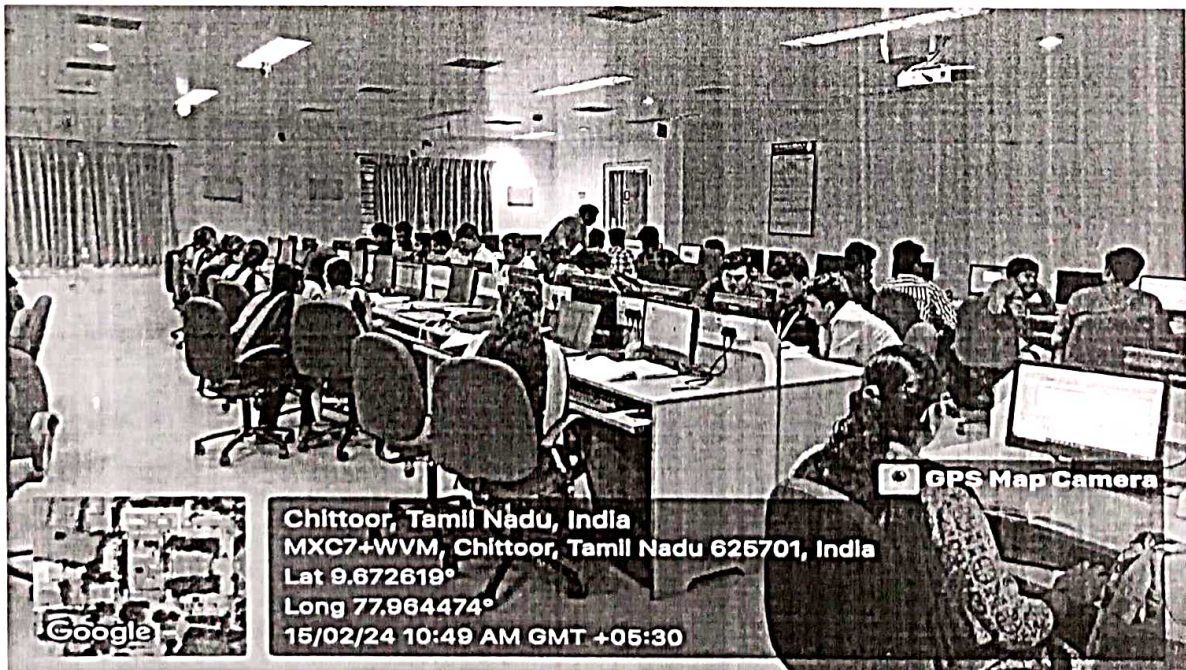


Day2 – 13-02-2024





Day3 14-02-2024

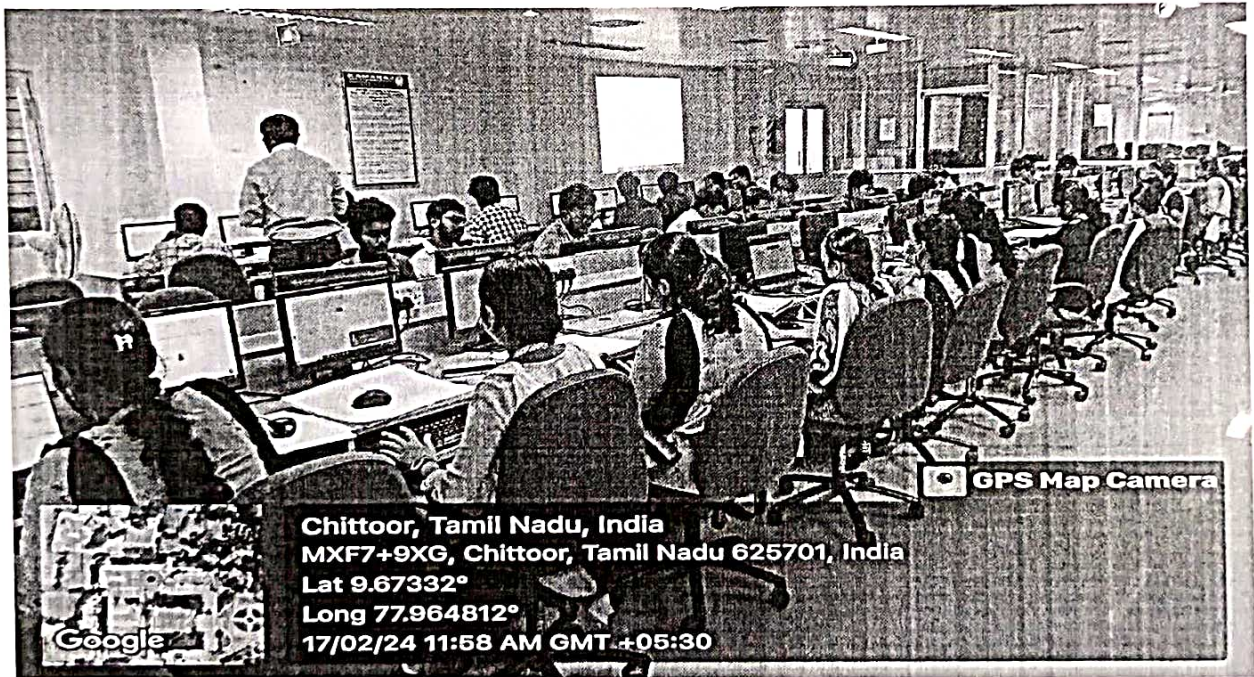


Day4 - 15-02-2024





Day5 – 16-02-2024



Day6 – 17-02-2024

VAC *S. Gan*  
*17/2/24*  
 co-ordinator  
 [MRS. S. LAYATHAR]

*17/2/24*  
 HOD /IT  
 [DR. B. VAKAIMALAR]



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**Department of Information Technology**

**7. Certificates of all the Participants**

**Value Added Course**

**on**

**Web Application - JAVA Programming**





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DEPARTMENT OF INFORMATION TECHNOLOGY

Web Application - JAVA Programming - [12.02.2024 - 17.02.2024]

Students Name List

S.No	Rollno	Register Number	Students Name
1	22UIT009	920422205010	AKSHAYAA.M
2	22UIT011	920422205091	SANJAY PRABHU.V. J
3	22UIT015	920422205046	KALIMUTHU.T
4	22UIT017	920422205103	SHERIN.M
5	22UIT018	920422205098	SELVA KUMAR.R
6	22UIT023	920422205026	DHARSHINI.S
7	22UIT028	920422205015	ASHVIN KUMAR.M
8	22UIT029	920422205041	JAYA SURYA.S
9	22UIT031	920422205035	HARINI.U
10	22UIT037	920422205084	RICKY JOEL.J
11	22UIT039	920422205008	AKSHAYA BALA.A
12	22UIT043	920422205079	PRAVEEN.M
13	22UIT045	920422205024	DEEPIKA.M
14	22UIT046	920422205051	KASINATHAN.T
15	22UIT047	920422205039	ISAAC PRADEEP RAJ.K. L
16	22UIT051	920422205040	JANAVARSHINI.G
17	22UIT054	920422205006	AFRIN THAYUFA.S
18	22UIT058	920422205060	MANIKANDAN.M
19	22UIT059	920422205092	SANTHIYA.K
20	22UIT060	920422205077	POOJA.R
21	22UIT064	920422205094	SANTHOSH THANGASEELAN.S
22	22UIT068	920422205013	ARJUN KANTH.K
23	22UIT069	920422205080	PRIYAJAYAM.K
24	22UIT073	920422205034	HARIHARAN.A



25	22UIT076	920422205055	MADHUBALA.K
26	22UIT078	920422205109	SUDHAA SHREE.K
27	22UIT080	920422205036	HARISH RAGHAVENDRA.S
28	22UIT081	920422205071	NAVEENKUMAR.S
29	22UIT083	920422205004	ABINAYA SELVI.S
30	22UIT084	920422205101	SESHAN.N
31	22UIT088	920422205014	ARUN.P
32	22UIT092	920422205011	ANANTHA GANESH.R
33	22UIT094	920422205063	MONIGA.P
34	22UIT095	920422205007	AGUSTIN JOSHUA.Y
35	22UIT096	920422205037	HEMADHARSHINI.R
36	22UIT098	920422205030	GAYATHRI.J
37	22UIT100	920422205111	SURIYAJAYASUBISRI.S
38	22UIT102	920422205104	SIVA SANKARA PANDI.S
39	22UIT103	920422205100	SEREEEN FATHIMA GANI.M
40	22UIT104	920422205031	GNANA JERSHA.J
41	22UIT105	920422205016	ASLAM ASHIK.K
42	22UIT109	920422205064	MOTTAYA SAMY.K
43	22UIT114	920422205053	KAVYA.R
44	22UIT115	920422205023	DEEPASRI.R
45	22UIT118	920422205069	NAGARAJAN.P

*S. Gayathri*  
VAC Coordinator

[MRS. S. GAYATHRI]

*12/2/24*  
HOD/IT

[DR. E. VAKAIMALAR]



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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **AKSHAYAA M** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024 to 17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **93** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**

**HoD / IT**

*Dr. S. Senthil*

**Dr.S.SENTHIL**

**PRINCIPAL**

*Mr. Rajendran Subramanian*

**Mr.RAJENDRAN SUBRAMANIAN**

**MANAGING DIRECTOR**





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **SANTAY PRABHU V.T** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

Department of Information Technology

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark : ..... **90** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **KALIMUTHU T.** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **90** .....

*E. V. Vakaimalar*

**Dr. E. VAKAIMALAR**

**HoD / IT**

*Dr. S. Senthil*

**Dr. S. SENTHIL**

**PRINCIPAL**

*Mr. Rajendran Subramanian*

**Mr. RAJENDRAN SUBRAMANIAN**

**MANAGING DIRECTOR**





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **SHERIN M** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

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Assessment Mark : ..... **84** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... SELVA KUMAR R ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... 90 .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran Subramanian*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR



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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **DHARSHINI** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

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Assessment Mark : ..... **96** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*S. Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran Subramanian*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **ASHVIN KUMAR M** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

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Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark : ..... **86** .....

*E. Vakaimalar*

**Dr. E. VAKAIMALAR**  
HoD / IT

*Senthil*

**Dr. S. SENTHIL**  
PRINCIPAL

*Rajendran*

**Mr. RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR





**SILICON**  
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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **JAYA SURYA** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

Department of Information Technology

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark : ..... **88** .....

*A. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*Dr.S.Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Mr.Rajendran Subramanian*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR



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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... *HARINI U* ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

Department of Information Technology

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark : ..... *80* .....

*E. Vakkaimalar*

**Dr.E.VAKAIMALAR**  
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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **RICKY JOEL J** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **80** .....

*E. Vakaimalar*

**Dr. E. VAKAIMALAR**  
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**Dr. S. SENTHIL**  
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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **AKSHAYA BALA** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

Department of Information Technology

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Assessment Mark : ..... **88** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
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PRINCIPAL

*Rajendran*

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MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **PRAVEEN M** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

Department of Information Technology

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Assessment Mark : ..... **94** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
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*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **DEEPIKA M** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from 12.02.2024 to 17.02.2024 in association with

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Assessment Mark : ..... **96** .....

*A. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*S. Senthil*

**Dr.S.SENTHIL**  
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**AUTONOMOUS**

# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **KASINATHAN...T.** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024 to 17.02.2024** in association with

**Department of Information Technology**

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Assessment Mark : ..... **87** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*Senthil*

**Dr.S.SENTHIL**  
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# CERTIFICATE OF EXCELLENCE

This is to certify that **ISAAC PRADEEP RAI K.L.** of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

Department of Information Technology

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Assessment Mark : **94**

*E. Vakaimalar*

**Dr. E. VAKAIMALAR**  
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*Senthil*

**Dr. S. SENTHIL**  
PRINCIPAL

*Rajendran*

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MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **JANA VARSHINI G.** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

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Assessment Mark : ..... **89** .....

*E. Vakaimalar*

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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **AFRIN THAYUFA S** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024 to 17.02.2024** in association with

**Department of Information Technology**

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Assessment Mark : ..... **89** .....

*E. Vakaimalar*

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*Senthil*

**Dr.S.SENTHIL**

**PRINCIPAL**

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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **MANIKANDAN M** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

Department of Information Technology

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark : ..... **85** .....

*E. Vakaimalar*

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HoD / IT

*S. Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that .....**SANTHIYA K**..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

**Department of Information Technology**

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Assessment Mark : .....**85**.....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

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This is to certify that ..... *Pooja R* ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from 12.02.2024 to 17.02.2024 in association with

Department of Information Technology

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Assessment Mark : ..... *86* .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
HoD / IT

*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **SANTHOSH THANGASELAN..S.**..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

**Department of Information Technology**

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Assessment Mark : ..... **90** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
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*Senthil*

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PRINCIPAL

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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **ARTUN KANTH K** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

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Assessment Mark : ..... **90** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**

**HoD / IT**

*S. Senthil*

**Dr.S.SENTHIL**

**PRINCIPAL**

*Rajendran Subramanian*

**Mr.RAJENDRAN SUBRAMANIAN**

**MANAGING DIRECTOR**





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **PRIYAJAYAM K** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024 to 17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **84** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**

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*Senthil*

**Dr.S.SENTHIL**

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**MANAGING DIRECTOR**





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**AUTONOMOUS**

# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **HARSHARAN A** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **80** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **MADHUBALA K** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024 to 17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **88** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**

**HoD / IT**

*Senthil*

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**PRINCIPAL**

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**Mr.RAJENDRAN SUBRAMANIAN**

**MANAGING DIRECTOR**





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... *SHUDHA SHREE K* ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from 12.02.2024 to 17.02.2024 in association with

Department of Information Technology

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark : ..... *93* .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
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*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **HARISH RAGHAVENDRA** ..... of II Year IT

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## WEB APPLICATION - JAVA PROGRAMMING

from 12.02.2024 to 17.02.2024 in association with

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Assessment Mark : ..... **82** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**

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*S. Senthil*

**Dr.S.SENTHIL**

PRINCIPAL

*Rajendran*

**Mr.RAJENDRAN SUBRAMANIAN**

MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **NAVEENKUMAR** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

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Assessment Mark : ..... **82** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**  
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*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **ABINAYA SELVI S** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024 to 17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **87** .....

*E. Vakaimalar*

**Dr.E.VAKAIMALAR**

**HoD / IT**

*S. Senthil*

**Dr.S.SENTHIL**

**PRINCIPAL**

*Rajendran Subramanian*

**Mr.RAJENDRAN SUBRAMANIAN**

**MANAGING DIRECTOR**





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **DESHAN, N.** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

from **12.02.2024** to **17.02.2024** in association with

**Department of Information Technology**

**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **83** .....

*E. Vakaimalar*

**Dr. E. VAKAIMALAR**

**HoD / IT**

*Senthil*

**Dr. S. SENTHIL**

**PRINCIPAL**

*Rajendran Subramanian*

**Mr. RAJENDRAN SUBRAMANIAN**

**MANAGING DIRECTOR**





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **ARUN P** ..... of II Year IT

has successfully completed the Value Added Course on

## WEB APPLICATION - JAVA PROGRAMMING

from **12.02.2024** to **17.02.2024** in association with

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Assessment Mark : ..... **86** .....

*E. Vakaimal*

**Dr.E.VAKAIMALAR**  
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*Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR





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# CERTIFICATE OF EXCELLENCE

This is to certify that ..... **ANANTHA GANESH R.** ..... of II Year IT

has successfully completed the Value Added Course on

## **WEB APPLICATION - JAVA PROGRAMMING**

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Assessment Mark : ..... **87** .....

*E. Vakaimalar*

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*S. Senthil*

**Dr.S.SENTHIL**  
PRINCIPAL

*Rajendran Subramanian*

**Mr.RAJENDRAN SUBRAMANIAN**  
MANAGING DIRECTOR





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from **12.02.2024** to **17.02.2024** in association with

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**Kamaraj College of Engineering and Technology (Autonomous)**

Assessment Mark : ..... **83** .....

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Assessment Mark : .....**85**.....

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Assessment Mark : ..... **89** .....

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**Department of Information Technology**

## **8. Examination Schedule**

**Value Added Course**

**on**

**Web Application - JAVA Programming**



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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Web Application – JAVA Programming”**

**Circular**

**19.02.2024**

MCQ based examination will be conducted for the Value Added Course on “Web Application – JAVA Programming” for II year Information Technology students on **21.02.2024 [Afternoon]**. Students are advised to attend the test without fail.

Venue : New IT Lab – Windows Block

*19/2/24*

**HoD / IT**

To be read in:

1. II IT A & B Class Room





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**Department of Information Technology**

**9. Question and Answer Keys**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

# MCQ - VAC on "Web Application - JAVA Programming"

\* Required

\* This form will record your name, please fill your name.

1. Which of the modifiers in the field is accessible from all classes? \*  
(1 Point)

- public
- private
- Inheritance
- None of the given options



2. In Java, where can an object store its states? \* (1 Point)

- Directory
- Path
- Field
- All of the given options



3. Which of the following classes is immutable in Java? \* (1 Point)

- ArrayList class
- Collection class
- String class
- StringBuffer class

4. Which of the following statements about String class in Java? \* (1 Point)

- String class is immutable
- String class is final
- String class is abstract
- String class is mutable

5. which of the following can be used as access modifiers of a method?

A) Private B) Public C) Protected D) Default \* (1 Point)

- a) Both B & C
- b) A, B & C
- c) B, C & D
- d) All of the given options

6. Which of the following classes is immutable in Java? \* (1 Point)

- ArrayList class
- Collection class
- String class
- StringBuffer class

7. Which of the following methods belong to Object class?

A. run()  
B. notify()  
C. start()  
D. wait()  
E. notifyAll() \* (1 Point)

- a) A, B and C
- b) B, D and E
- c) A, B and E
- d) All of the given options



8. Exception and Error classes in Java extend which of the following classes directly? \* (1 Point)

- object
- NullPointerException
- Throwable class
- None of above

9. Break statement is used to \* (1 Point)

- get out of method
- end a program
- get out of a loop
- get out of the system

10. \_\_\_\_ method of the class String is used to compare two string objects for their equality \* (1 Point)

- equals()
- Equals()
- isequal()
- none

11. \_\_\_ is a superclass of all exceptional type classes in java \*

(1 Point)

- String
- Runtime Exceptions
- Throwable
- Cacheable

12. Choose the incorrect statement about a package \* (1 Point)

- Package defines a namespace in which classes are stored
- A package can contain another package within it
- Java uses file system directories to store packages
- A package can be renamed without renaming the directory in which the classes are stored

13. In object-oriented programming, Function overloading and operator overloading are examples of which of the following? \*

(1 Point)

- Polymorphism
- Abstraction
- Inheritance
- Encapsulation



14. In object-oriented programming, Dynamic Binding is another name for which of the following? \* (1 Point)

- polymorphism
- abstraction
- inheritance
- encapsulation

15. Object-Oriented Programming offers which of the following in a better way, compared to Structured Programming in order to provide more flexibility? \* (1 Point)

- Polymorphism
- Abstraction
- Inheritance
- Encapsulation

16. compareTo() returns \* (1 Point)

- true
- False
- An int value
- none

17. In JDBC, which interface is used to establish a connection with a database? \* (1 Point)

- Statement
- ResultSet
- Connection
- DriverManager

18. Which of the following statements is true about ODBC? \* (1 Point)

- It is specific to Java applications.
- It stands for Object-Oriented Database Connectivity.
- It provides a standard interface for connecting to databases.
- It is primarily used for connecting to local databases only.

19. What is the primary purpose of database connectivity? \* (1 Point)

- To create databases
- To query databases
- To manage databases
- To establish a connection between applications and databases



20. What is an exception in programming? \* (1 Point)

- An error that cannot be handled
- A special condition that changes the normal flow of program execution
- A syntax error in the code
- A warning issued by the compiler

21. Which keyword is used in Java to handle exceptions? \* (1 Point)

- catch
- try
- except
- throw

22. What happens if an exception occurs within the try block and there is no corresponding catch block? \* (1 Point)

- The program continues execution normally.
- The program terminates abruptly.
- The program throws another exception.
- The program prints a warning message.

23. What is the purpose of the finally block in exception handling? \*

(1 Point)

- To catch exceptions
- To handle exceptions
- To execute code regardless of whether an exception occurs or not
- To rethrow exceptions

24. Which of the following statements is true about thread synchronization? \* (1 Point)

- It is used to increase thread independence.
- It ensures that only one thread can access a resource at a time.
- It reduces thread safety.
- It is only necessary for single-threaded applications.

25. Which of the following is NOT a thread scheduling algorithm? \*

(1 Point)

- Round-robin
- First-come, first-served (FCFS)
- Shortest job next (SJN)
- Priority-based scheduling



26. Which access modifier restricts access to only the same class in which the member is declared? \* (1 Point)

- private
- protected
- public
- package-private (default)

27. In Java, can a subclass access a private member of its superclass? \* (1 Point)

- Yes, always
- No, never
- Yes, if the subclass is in the same package
- Yes, if the subclass is declared within the same file as the superclass

28. What is the role of a static variable in Java? \* (1 Point)

- To store values that are specific to each instance of a class
- To store values that are common across all instances of a class
- To store values that are local to a method
- To store values that are constant and cannot be modified

29. Which of the following statements is true about local variables? \*

(1 Point)

- They have default values assigned by the compiler.
- They are accessible from any method within the same class.
- They must be explicitly initialized before use.
- They are initialized to null by default.

30. What is the scope of a local variable in Java? \* (1 Point)

- The entire class
- The method or block in which it is declared
- All methods within the same package
- All methods within the same class



31. What will be the output of the following JAVA program?

```
class VAR
{
    public static void main(String args[])
    {
        int var1=5;
        int var2=6;
        if((var2=1)==var1)
            System.out.print(var2);
        else
            System.out.print(++var2);
    }
}
```

} \* (2 Points)

- 1
- 2
- 3
- 4 System.out.print(++var2); }

32. What will be the output of the following program?

```
public class increment  
{  
    public static void main(String args[])  
    {  
        int i=0;  
        i=i++ + i;  
        System.out.print("i="+i);  
    }  
} * (2 Points)
```

- i=0
- i=1
- i=2
- compile time error



33. What is the output of the program?

```
class strEQ
{
public static void main(String args[])
{
String s1="hello";
String s2=new String(s1);
System.out.println(s1==s2);
}
} * (2 Points)
```

- True
- False
- Compile time error
- Run time error





34. What is the output of the program?

```
abstract class A
```

```
{
```

```
int i;
```

35. What is the output of the following program?

```
class Numbers{
```

```
public static void main(String args[]){
```

```
int a=20, b=10;
```

```
if((a < b) && (b++ < 25)){
```

```
System.out.println("This is any language logic");
```

```
}
```

```
System.out.println(b);
```

```
}} * (2 Points)
```

12

11

10

13

```
obj.j=2;
```

```
obj.display();
```

```
}
```

```
} * (2 Points)
```

a) 1

36. What will be the output of following program?

```
class Test {  
    static String s = "";  
    public static void main(String[] args) {  
        P:  
        for (int i = 2; i < 7; i++) {  
            if (i == 3)  
                continue;  
            if (i == 5)  
                break P;  
            s = s + i;    }  
        System.out.println(s);  
    } } * (2 Points)
```

- a) 32
- b) 23
- c) 24
- d) 42



37. Identify the output of the following program. String str = "Hellow"; System.out.println(str.indexOf('t')); \* (2 Points)

- 0
- 1
- true
- 1

38. Identify the output of the following program.

```
Public class Test{  
  
    Public static void main(String argos[]){  
  
        String str1 = "one";  
  
        String str2 = "two";  
  
        System.out.println(str1.concat(str2));  
  
    }  
  
}
```

} \* (2 Points)

- one
- two
- onetwo
- twoone

39. What is the output of the following Java code snippet?

```
public class MyThread extends Thread {  
    public void run() {  
        System.out.println("Thread is running.");  
    }  
  
    public static void main(String[] args) {  
        MyThread thread = new MyThread();  
        thread.start();  
  
        System.out.println("Main thread is running.");  
    }  
}
```

} \* (2 Points)

- Main thread is running. Thread is running.
- Thread is running. Main thread is running.
- It's not possible to predict the output.
- Thread is running.



40. What will be the output of the following Java code?

```
class Test {  
  
    int num;  
  
    Test() {  
  
        num = 0;  
  
    }  
  
    Test(int num) {  
  
        this.num = num;  
  
    }  
  
    public static void main(String[] args) {  
  
        Test obj1 = new Test();  
  
        Test obj2 = new Test(10);  
  
        System.out.println(obj1.num + " " + obj2.num);  
  
    }  
} * (2 Points)
```

0 0

0 10

10 0

10 10

41. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str1 = "hello";  
  
        String str2 = "hello";  
  
        System.out.println(str1 == str2);  
  
    }  
  
}
```

} \* (2 Points)

- true
- false
- Compiler error
- Runtime error



42. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str = "hello";  
  
        System.out.println(str.substring(1, 3));  
  
    }  
  
}
```

} \* (2 Points)

- hel
- ell
- ello
- Compiler error

43. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr);  
  
    }  
}
```

} \* (2 Points)

- [I@3c679bde
- 0
- null
- Compiler error



44. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr[6]);  
  
    }  
  
}
```

} \* (2 Points)

- 0
- 6
- ArrayIndexOutOfBoundsException
- Compiler error

45. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr1 = {1, 2, 3};  
  
        int[] arr2 = arr1.clone();  
  
        arr1[0] = 5;  
  
        System.out.println(arr2[0]);  
  
    }  
  
}
```

} \* (2 Points)

- 1
- 2
- 3
- 5

---

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 Microsoft Forms

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**VALUE ADDED COURSE**

**Web Application – JAVA Programming**

**Questions and Answers**

1. Which of the modifiers in the field is accessible from all classes?

- a) **public**
- b) private
- c) Inheritance
- d) None of the given options

2. In Java, where can an object store its states?

- a) Directory
- b) Path
- c) **Field**
- d) All of the given options

3. Which of the following classes is immutable in Java?

- a) ArrayList class
- b) Collection class
- c) **String class**
- d) StringBuffer class

4. Which of the following statements about String class in Java?

- a) **String class is immutable**
- b) String class is final
- c) String class is abstract
- d) String class is mutable

5. which of the following can be used as access modifiers of a method?

- A. Private
- B. Public
- C. Protected
- D. Default



- a) Both B & C
- b) A, B & C
- c) B, C & D

**d) All of the given options**

6. Which of the following classes is immutable in Java?

- a) ArrayList class
- b) Collection class
- c) String class**
- d) StringBuffer class

7. Which of the following methods belong to Object class?

- A. run()
- B. notify()
- C. start()
- D. wait()
- E. notifyAll()

- a) A, B and C
- b) B, D and E**
- c) A, B and E
- d) All of the given options

8. Exception and Error classes in Java extend which of the following classes directly?

- a) object
- b) NullPointerException
- c) Throwable class**
- d) None of above

9. 12. Break statement is used to

- a) get out of method
- b) end a program
- c) get out of a loop**
- d) get out of the system

10. \_\_\_\_\_ method of the class String is used to compare two string objects for their equality

- a) equals()**
- b) Equals()
- c) isequal()
- d) none

11. \_\_\_\_\_ is a superclass of all exceptional type classes in java

- a) String
- b) Runtime Exceptions**

- c) **Throwable**
  - d) Cacheable
12. Choose the incorrect statement about a package
- a) Package defines a namespace in which classes are stored
  - b) A package can contain another package within it
  - c) Java uses file system directories to store packages
  - d) **A package can be renamed without renaming the directory in which the classes are stored.**
13. In object-oriented programming, Function overloading and operator overloading are examples of which of the following?
- a) **Polymorphism**
  - b) Abstraction
  - c) Inheritance
  - d) Encapsulation
14. In object-oriented programming, Dynamic Binding is another name for which of the following?
- a) **polymorphism**
  - b) abstraction
  - c) inheritance
  - d) encapsulation
15. Object-Oriented Programming offers which of the following in a better way, compared to Structured Programming in order to provide more flexibility?
- a) Polymorphism
  - b) Abstraction
  - c) **Inheritance**
  - d) Encapsulation
16. compareTo() returns
- a) true
  - b) False
  - c) **An int value**
  - d) none
17. In JDBC, which interface is used to establish a connection with a database?
- a) Statement
  - b) ResultSet
  - c) **Connection**
  - d) DriverManager
18. Which of the following statements is true about ODBC?
- a) It is specific to Java applications.
  - b) It stands for Object-Oriented Database Connectivity.
  - c) **It provides a standard interface for connecting to databases.**
  - d) It is primarily used for connecting to local databases only.
19. What is the primary purpose of database connectivity?
- a) To create databases
  - b) To query databases

c) To manage databases

**d) To establish a connection between applications and databases**

20. What is an exception in programming?

a) An error that cannot be handled

**b) A special condition that changes the normal flow of program execution**

c) A syntax error in the code

d) A warning issued by the compiler

21. Which keyword is used in Java to handle exceptions?

a) catch

**b) try**

c) except

d) throw

22. What happens if an exception occurs within the try block and there is no corresponding catch block?

a) The program continues execution normally.

**b) The program terminates abruptly.**

c) The program throws another exception.

d) The program prints a warning message.

23. What is the purpose of the finally block in exception handling?

a) To catch exceptions

b) To handle exceptions

**c) To execute code regardless of whether an exception occurs or not**

d) To rethrow exceptions

24. Which of the following statements is true about thread synchronization?

a) It is used to increase thread independence.

**b) It ensures that only one thread can access a resource at a time.**

c) It reduces thread safety.

d) It is only necessary for single-threaded applications.

25. Which of the following is NOT a thread scheduling algorithm?

a) Round-robin

b) First-come, first-served (FCFS)

**c) Shortest job next (SJN)**

d) Priority-based scheduling



26. Which access modifier restricts access to only the same class in which the member is declared?

- a) **private**
- b) protected
- c) public
- d) package-private (default)

27. In Java, can a subclass access a private member of its superclass?

- a) Yes, always
- b) **No, never**
- c) Yes, if the subclass is in the same package
- d) Yes, if the subclass is declared within the same file as the superclass

28. What is the role of a static variable in Java?

- a) To store values that are specific to each instance of a class
- b) **To store values that are common across all instances of a class**
- c) To store values that are local to a method
- d) To store values that are constant and cannot be modified

29. Which of the following statements is true about local variables?

- a) They have default values assigned by the compiler.
- b) They are accessible from any method within the same class.
- c) **They must be explicitly initialized before use.**
- d) They are initialized to null by default.

30. What is the scope of a local variable in Java?

- a) The entire class
- b) **The method or block in which it is declared**
- c) All methods within the same package
- d) All methods within the same class

31. What will be the output of the following JAVA program?

```
class VAR
{
    public static void main(String args[])
    {
        int var1=5;
        int var2=6;
        if((var2=1)==var1)
            System.out.print(var2);
        else
            System.out.print(++var2);
    }
}
```

- ```
}
```
- a)1
  - b)2**
  - c)3
  - d)4

32. What will be the output of the following program?

```
public class increment
{
    public static void main(String args[])
    {
        int i=0;
        i=i++ + i;
        System.out.print("i="+i);
    }
}
```

- a) i=0
- b) i=1**
- c) i=2
- d) compile time error

33. What is the output of the program?

```
class strEQ
{
    public static void main(String args[])
    {
        String s1="hello";
        String s2=new String(s1);
        System.out.println(s1==s2);
    }
}
```

- a) True
- b) False**
- c) Compile time error
- d) Run time error

34. abstract class A

```
{
    int i;
    abstract void display();
}
class B extends A
{
    int j;
    void display()
    {
        System.out.println(j);
    }
}
public class Abstract_demo
{
```

```

public static void main(String args[])
{
    B obj=new B();
    obj.j=2;
    obj.display();
}

```

- a) 1
- b) compiler error
- c) run time error
- d) 2**

35. What is the output of the following program?

```

class Numbers{
    public static void main(String args[]){
        int a=20, b=10;
        if((a < b) && (b++ < 25)){
            System.out.println("This is any language logic");
        }
        System.out.println(b);
    }
}

```

- a) 12
- b) 11
- c) 10**
- d) 13

36. What will be the output of following program?

```

class Test {
    static String s = "";
    public static void main(String[] args) {
        P:
        for (int i = 2; i < 7; i++) {
            if (i == 3)
                continue;
            if (i == 5)
                break P;
            s = s + i;    }
        System.out.println(s);
    } }

```

- a) 32
- b) 23
- c) 24**



d) 42

37. Identify the output of the following program.

```
String str = "Hellow";  
System.out.println(str.indexOf('t'));
```

- a) 0
- b) 1
- c) true
- d) -1**

38. Identify the output of the following program.

```
Public class Test{  
    Public static void main(String argos[]){  
        String str1 = "one";  
        String str2 = "two";  
        System.out.println(str1.concat(str2));  
    }  
}
```

- a) one
- b) two
- c) onetwo**
- d) twoone

39. What is the output of the following Java code snippet?

```
public class MyThread extends Thread {  
    public void run() {  
        System.out.println("Thread is running.");  
    }  
    public static void main(String[] args) {  
        MyThread thread = new MyThread();  
        thread.start();  
        System.out.println("Main thread is running.");  
    }  
}
```

**a) Main thread is running. Thread is running.**

b) Thread is running. Main thread is running.

c) It's not possible to predict the output.

d) Thread is running.

40. What will be the output of the following Java code?

```
class Test {  
    int num;  
    Test() {  
        num = 0;  
    }  
    Test(int num) {  
        this.num = num;  
    }  
    public static void main(String[] args) {  
        Test obj1 = new Test();  
        Test obj2 = new Test(10);  
        System.out.println(obj1.num + " " + obj2.num);  
    }  
}
```

a) 0 0

**b) 0 10**

c) 10 0

d) 10 10

41. What will be the output of the following Java code?

```
public class Main {  
    public static void main(String[] args) {  
        String str1 = "hello";  
        String str2 = "hello";  
        System.out.println(str1 == str2);  
    }  
}
```

}

- a) **true**
- b) false
- c) Compiler error
- d) Runtime error

42. What will be the output of the following Java code?

```
public class Main {  
    public static void main(String[] args) {  
        String str = "hello";  
        System.out.println(str.substring(1, 3));  
    }  
}
```

- a) hel
- b) **ell**
- c) ello
- d) Compiler error

43. What will be the output of the following Java code?

```
public class Main {  
    public static void main(String[] args) {  
        int[] arr = new int[5];  
        System.out.println(arr);  
    }  
}
```

- a) **[I@3c679bde**
- b) 0
- c) null
- d) Compiler error

44. What will be the output of the following Java code?

```
public class Main {  
    public static void main(String[] args) {  
        int[] arr = new int[5];  
        System.out.println(arr[6]);  
    }  
}
```



```
}  
}
```

a) 0

b) 6

**c) ArrayIndexOutOfBoundsException**

d) Compiler error

45. What will be the output of the following Java code?

```
public class Main {  
    public static void main(String[] args) {  
        int[] arr1 = {1, 2, 3};  
        int[] arr2 = arr1.clone();  
        arr1[0] = 5;  
        System.out.println(arr2[0]);  
    }  
}
```

**a) 1**

b) 2

c) 3

d) 5



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**S.P.G.Chidambara Nadar - C.Nagammal Campus**

**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**

## **Department of Information Technology**

### **10. Attendace Sheet**

#### **Value Added Course**

**on**

#### **Web Application - JAVA Programming**



















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**Department of Information Technology**

**11. Evaluated Answer Script**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

## Review: MCQ - VAC on "Web Application - JAVA Programming"

Respondent

38

ASLAM ASHIK.K

37:35

Time to complete

60/60

Points

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

1. Which of the modifiers in the field is accessible from all classes? \*

public ✓

private

Inheritance

None of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

2. In Java, where can an object store its states? \*

- Directory
- Path
- Field ✓
- All of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

3. Which of the following classes is immutable in Java? \*

- ArrayList class
- Collection class
- String class ✓
- StringBuffer class



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

4. Which of the following statements about String class in Java? \*

- String class is immutable ✓
- String class is final
- String class is abstract
- String class is mutable

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

5. which of the following can be used as access modifiers of a method?

A) Private B) Public C) Protected D) Default \*

- a) Both B & C
- b) A, B & C
- c) B, C & D
- d) All of the given options ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

6. Which of the following classes is immutable in Java? \*

- ArrayList class
- Collection class
- String class ✓
- StringBuffer class

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1 / 1 pt  
Auto-graded

7. Which of the following methods belong to Object class?

- A. run()
- B. notify()
- C. start()
- D. wait()
- E. notifyAll() \*

- a) A, B and C
- b) B, D and E ✓
- c) A, B and E
- d) All of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

8. Exception and Error classes in Java extend which of the following classes directly? \*

- object
- NullPointerException
- Throwable class ✓
- None of above

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

9. Break statement is used to \*

- get out of method
- end a program
- get out of a loop ✓
- get out of the system



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

10. \_\_\_\_ method of the class String is used to compare two string objects for their equality

\*

equals() ✓

Equals()

isequal()

none

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

11. \_\_\_\_ is a superclass of all exceptional type classes in java \*

String

Runtime Exceptions

Throwable ✓

Cacheable

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

12. Choose the incorrect statement about a package \*

- Package defines a namespace in which classes are stored
- A package can contain another package within it
- Java uses file system directories to store packages
- A package can be renamed without renaming the directory in which the classes are stored ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

13. In object-oriented programming, Function overloading and operator overloading are examples of which of the following? \*

- Polymorphism ✓
- Abstraction
- Inheritance
- Encapsulation

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

14. In object-oriented programming, Dynamic Binding is another name for which of the following? \*

- polymorphism ✓
- abstraction
- inheritance
- encapsulation

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

15. Object-Oriented Programming offers which of the following in a better way, compared to Structured Programming in order to provide more flexibility? \*

- Polymorphism
- Abstraction
- Inheritance ✓
- Encapsulation



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

16. compareTo() returns \*

- true
- False
- An int value ✓
- none

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

17. In JDBC, which interface is used to establish a connection with a database? \*

- Statement
- ResultSet
- Connection ✓
- DriverManager

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

18. Which of the following statements is true about ODBC? \*

- It is specific to Java applications.
- It stands for Object-Oriented Database Connectivity.
- It provides a standard interface for connecting to databases. ✓
- It is primarily used for connecting to local databases only.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

19. What is the primary purpose of database connectivity? \*

- To create databases
- To query databases
- To manage databases
- To establish a connection between applications and databases ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

20. What is an exception in programming? \*

- An error that cannot be handled
- A special condition that changes the normal flow of program execution ✓
- A syntax error in the code
- A warning issued by the compiler

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

21. Which keyword is used in Java to handle exceptions? \*

- catch
- try ✓
- except
- throw



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

22. What happens if an exception occurs within the try block and there is no corresponding catch block? \*

- The program continues execution normally.
- The program terminates abruptly. ✓
- The program throws another exception.
- The program prints a warning message.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

23. What is the purpose of the finally block in exception handling? \*

- To catch exceptions
- To handle exceptions
- To execute code regardless of whether an exception occurs or not ✓
- To rethrow exceptions

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

24. Which of the following statements is true about thread synchronization? \*

- It is used to increase thread independence.
- It ensures that only one thread can access a resource at a time. ✓
- It reduces thread safety.
- It is only necessary for single-threaded applications.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

25. Which of the following is NOT a thread scheduling algorithm? \*

- Round-robin
- First-come, first-served (FCFS)
- Shortest job next (SJN) ✓
- Priority-based scheduling

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

26. Which access modifier restricts access to only the same class in which the member is declared? \*

- private ✓
- protected
- public
- package-private (default)

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

27. In Java, can a subclass access a private member of its superclass? \*

- Yes, always
- No, never ✓
- Yes, if the subclass is in the same package
- Yes, if the subclass is declared within the same file as the superclass



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

28. What is the role of a static variable in Java? \*

- To store values that are specific to each instance of a class
- To store values that are common across all instances of a class ✓
- To store values that are local to a method
- To store values that are constant and cannot be modified

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

29. Which of the following statements is true about local variables? \*

- They have default values assigned by the compiler.
- They are accessible from any method within the same class.
- They must be explicitly initialized before use. ✓
- They are initialized to null by default.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

30. What is the scope of a local variable in Java? \*

- The entire class
- The method or block in which it is declared ✓
- All methods within the same package
- All methods within the same class

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

31. What will be the output of the following JAVA program?

```
class VAR
{
    public static void main(String args[])
    {
        int var1=5;
        int var2=6;
        if((var2=1)==var1)
            System.out.print(var2);
        else
            System.out.print(++var2);
    }
}*
```

1

2 ✓

3

4 System.out.print(++var2); }



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

32. What will be the output of the following program?

```
public class increment  
{  
    public static void main(String args[])  
    {  
        int i=0;  
        i=i++ + i;  
        System.out.print("i="+i);  
    }  
} *
```

- i=0
- i=1 ✓
- i=2
- compile time error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

33. What is the output of the program?

```
class strEQ
{
public static void main(String args[])
{
String s1="hello";
String s2=new String(s1);
System.out.println(s1==s2);
}
}*
```

- True
- False ✓
- Compile time error
- Run time error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded



34. What is the output of the program?

```
abstract class A
```

```
{
```

```
int i;
```

```
abstract void display();
```

```
}
```

```
class B extends A
```

```
{
```

```
int j;
```

```
void display()
```

```
{
```

```
System.out.println(j);
```

```
}
```

```
}
```

```
public class Abstract_demo
```

```
{
```

```
public static void main(String args[])
```

```
{
```

```
B obj=new B();
```

```
obj.j=2;
```

```
obj.display();
```

```
}
```

```
} *
```

a) 1

- b) compiler error
- c) run time error
- d) 2 ✓

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

35. What is the output of the following program?

```
class Numbers{  
  
    public static void main(String args[]){  
  
        int a=20, b=10;  
  
        if((a < b) && (b++ < 25)){  
  
            System.out.println("This is any  
language logic");  
  
        }  
  
        System.out.println(b);  
  
    } *  
}
```

- 12
- 11
- 10 ✓
- 13

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

36. What will be the output of following program?

```
class Test {  
  
    static String s = "";  
  
    public static void main(String[] args)  
    {  
  
        P:  
  
        for (int i = 2; i < 7; i++) {  
  
            if (i == 3)  
  
                continue;  
  
            if (i == 5)  
  
                break P;  
  
            s = s + i;    }  
  
        System.out.println(s);  
    } } *
```

- a) 32
- b) 23
- c) 24 ✓
- d) 42



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

37. Identify the output of the following program.

```
String str = "Hellow";  
System.out.println(str.indexOf('t')); *
```

- 0
- 1
- true
- 1 ✓

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

38. Identify the output of the following program.

```
Public class Test{  
  
    Public static void main(String argos[]){  
  
        String str1 = "one";  
  
        String str2 = "two";  
  
        System.out.println(str1.concat(str2));  
  
    }  
}
```

- one
- two
- onetwo ✓
- twoone

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

39. What is the output of the following Java code snippet?

```
public class MyThread extends Thread {  
  
    public void run() {  
  
        System.out.println("Thread is running.");  
  
    }  
  
    public static void main(String[] args) {  
  
        MyThread thread = new MyThread();  
  
        thread.start();  
  
        System.out.println("Main thread is  
running.");  
  
    }  
  
} *
```

- Main thread is running. Thread is running. ✓
- Thread is running. Main thread is running.
- It's not possible to predict the output.
- Thread is running.



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

40. What will be the output of the following Java code?

```
class Test {  
  
    int num;  
  
    Test() {  
  
        num = 0;  
  
    }  
  
    Test(int num) {  
  
        this.num = num;  
  
    }  
  
    public static void main(String[] args) {  
  
        Test obj1 = new Test();  
  
        Test obj2 = new Test(10);  
  
        System.out.println(obj1.num + " " +  
obj2.num);  
  
    }  
}*
```

0 0

0 10 ✓

10 0

10 10

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

41. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str1 = "hello";  
  
        String str2 = "hello";  
  
        System.out.println(str1 == str2);  
  
    }  
  
} *
```

- true ✓
- false
- Compiler error
- Runtime error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

42. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str = "hello";  
  
        System.out.println(str.substring(1, 3));  
  
    }  
  
}
```

- hel
- ell ✓
- ello
- Compiler error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

43. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr);  
  
    }  
  
} *
```

[I@3c679bde ✓

0

null

Compiler error



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

44. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr[6]);  
  
    }  
  
} *
```

- 0
- 6
- `ArrayIndexOutOfBoundsException` ✓
- Compiler error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

45. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr1 = {1, 2, 3};  
  
        int[] arr2 = arr1.clone();  
  
        arr1[0] = 5;  
  
        System.out.println(arr2[0]);  
  
    }  
}
```

} \*

1 ✓

2

3

5

## Review: MCQ - VAC on "Web Application - JAVA Programming"

Respondent

28

JANAVARSHINI.G

49:59

Time to complete

50/60

Points

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

1. Which of the modifiers in the field is accessible from all classes? \*

public ✓

private

Inheritance

None of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

2. In Java, where can an object store its states? \*

- Directory
- Path
- Field ✓
- All of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

3. Which of the following classes is immutable in Java? \*

- ArrayList class
- Collection class
- String class ✓
- StringBuffer class



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

4. Which of the following statements about String class in Java? \*

- String class is immutable ✓
- String class is final
- String class is abstract
- String class is mutable

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

5. which of the following can be used as access modifiers of a method?

A) Private B) Public C) Protected D) Default \*

- a) Both B & C
- b) A, B & C
- c) B, C & D
- d) All of the given options ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

6. Which of the following classes is immutable in Java? \*

- ArrayList class
- Collection class
- String class ✓
- StringBuffer class

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

7. Which of the following methods belong to Object class?

- A. run()
- B. notify()
- C. start()
- D. wait()
- E. notifyAll() \*

- a) A, B and C
- b) B, D and E ✓
- c) A, B and E
- d) All of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

8. Exception and Error classes in Java extend which of the following classes directly? \*

- object
- NullPointerException
- Throwable class ✓
- None of above

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

9. Break statement is used to \*

- get out of method
- end a program
- get out of a loop ✓
- get out of the system

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

10. \_\_\_\_ method of the class String is used to compare two string objects for their equality

\*

equals() ✓

Equals()

isequal()

none

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

11. \_\_\_\_ is a superclass of all exceptional type classes in java \*

String

Runtime Exceptions

Throwable ✓

Cacheable



✘ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

12. Choose the incorrect statement about a package \*

- Package defines a namespace in which classes are stored
- A package can contain another package within it
- Java uses file system directories to store packages
- A package can be renamed without renaming the directory in which the classes are stored ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

13. In object-oriented programming, Function overloading and operator overloading are examples of which of the following? \*

- Polymorphism ✓
- Abstraction
- Inheritance
- Encapsulation

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

14. In object-oriented programming, Dynamic Binding is another name for which of the following? \*

- polymorphism ✓
- abstraction
- inheritance
- encapsulation

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

15. Object-Oriented Programming offers which of the following in a better way, compared to Structured Programming in order to provide more flexibility? \*

- Polymorphism
- Abstraction
- Inheritance ✓
- Encapsulation

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

16. compareTo() returns \*

- true
- False
- An int value ✓
- none

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

17. In JDBC, which interface is used to establish a connection with a database? \*

- Statement
- ResultSet
- Connection ✓
- DriverManager

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

18. Which of the following statements is true about ODBC? \*

- It is specific to Java applications.
- It stands for Object-Oriented Database Connectivity.
- It provides a standard interface for connecting to databases. ✓
- It is primarily used for connecting to local databases only.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

19. What is the primary purpose of database connectivity? \*

- To create databases
- To query databases
- To manage databases
- To establish a connection between applications and databases ✓



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

20. What is an exception in programming? \*

- An error that cannot be handled
- A special condition that changes the normal flow of program execution ✓
- A syntax error in the code
- A warning issued by the compiler

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

21. Which keyword is used in Java to handle exceptions? \*

- catch
- try ✓
- except
- throw

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

22. What happens if an exception occurs within the try block and there is no corresponding catch block? \*

- The program continues execution normally.
- The program terminates abruptly. ✓
- The program throws another exception.
- The program prints a warning message.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

23. What is the purpose of the finally block in exception handling? \*

- To catch exceptions
- To handle exceptions
- To execute code regardless of whether an exception occurs or not ✓
- To rethrow exceptions

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

24. Which of the following statements is true about thread synchronization? \*

- It is used to increase thread independence.
- It ensures that only one thread can access a resource at a time. ✓
- It reduces thread safety.
- It is only necessary for single-threaded applications.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

25. Which of the following is NOT a thread scheduling algorithm? \*

- Round-robin
- First-come, first-served (FCFS)
- Shortest job next (SJN) ✓
- Priority-based scheduling

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

26. Which access modifier restricts access to only the same class in which the member is declared? \*

- private ✓
- protected
- public
- package-private (default)

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

27. In Java, can a subclass access a private member of its superclass? \*

- Yes, always
- No, never ✓
- Yes, if the subclass is in the same package
- Yes, if the subclass is declared within the same file as the superclass



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

28. What is the role of a static variable in Java? \*

- To store values that are specific to each instance of a class
- To store values that are common across all instances of a class ✓
- To store values that are local to a method
- To store values that are constant and cannot be modified

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

29. Which of the following statements is true about local variables? \*

- They have default values assigned by the compiler.
- They are accessible from any method within the same class.
- They must be explicitly initialized before use. ✓
- They are initialized to null by default.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

30. What is the scope of a local variable in Java? \*

- The entire class
- The method or block in which it is declared ✓
- All methods within the same package
- All methods within the same class

✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

31. What will be the output of the following JAVA program?

```
class VAR
{
    public static void main(String args[])
    {
        int var1=5;
        int var2=6;
        if((var2=1)==var1)
            System.out.print(var2);
        else
            System.out.print(++var2);
    }
}*
```

- 1
- 2 ✓
- 3
- 4 System.out.print(++var2); }

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

32. What will be the output of the following program?

```
public class increment  
{  
    public static void main(String args[])  
    {  
        int i=0;  
        i=i++ + i;  
        System.out.print("i="+i);  
    }  
} *
```

- i=0
- i=1 ✓
- i=2
- compile time error



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

33. What is the output of the program?

```
class strEQ
{
public static void main(String args[])
{
String s1="hello";
String s2=new String(s1);
System.out.println(s1==s2);
}
}*
```

- True
- False ✓
- Compile time error
- Run time error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

34. What is the output of the program?

```
abstract class A
```

```
{
```

```
int i;
```

```
abstract void display();
```

```
}
```

```
class B extends A
```

```
{
```

```
int j;
```

```
void display()
```

```
{
```

```
System.out.println(j);
```

```
}
```

```
}
```

```
public class Abstract_demo
```

```
{
```

```
public static void main(String args[])
```

```
{
```

```
B obj=new B();
```

```
obj.j=2;
```

```
obj.display();
```

```
}
```

```
} *
```

a) 1

- b) compiler error
- c) run time error
- d) 2 ✓

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

35. What is the output of the following program?

```
class Numbers{  
  
    public static void main(String args[]){  
  
        int a=20, b=10;  
  
        if((a < b) && (b++ < 25)){  
  
            System.out.println("This is any  
language logic");  
  
        }  
  
        System.out.println(b);  
  
    } *  
}
```

- 12
- 11
- 10 ✓
- 13



✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

36. What will be the output of following program?

```
class Test {  
  
    static String s = "";  
  
    public static void main(String[] args)  
    {  
  
        P:  
  
        for (int i = 2; i < 7; i++) {  
  
            if (i == 3)  
  
                continue;  
  
            if (i == 5)  
  
                break P;  
  
            s = s + i;    }  
  
        System.out.println(s);  
    } } *
```

- a) 32
- b) 23
- c) 24 ✓
- d) 42

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

37. Identify the output of the following program.

```
String str = "Hellow";  
System.out.println(str.indexOf('t')); *
```

- 0
- 1
- true
- 1 ✓

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

38. Identify the output of the following program.

```
Public class Test{  
  
    Public static void main(String argos[]){  
  
        String str1 = "one";  
  
        String str2 = "two";  
  
  
        System.out.println(str1.concat(str2));  
  
    }  
}
```

- one
- two
- onetwo ✓
- twoone

✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

39. What is the output of the following Java code snippet?

```
public class MyThread extends Thread {  
  
    public void run() {  
  
        System.out.println("Thread is running.");  
  
    }  
  
    public static void main(String[] args) {  
  
        MyThread thread = new MyThread();  
  
        thread.start();  
  
        System.out.println("Main thread is  
running.");  
  
    }  
} *
```

- Main thread is running. Thread is running. ✓
- Thread is running. Main thread is running.
- It's not possible to predict the output.
- Thread is running.



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

40. What will be the output of the following Java code?

```
class Test {  
  
    int num;  
  
    Test() {  
  
        num = 0;  
  
    }  
  
    Test(int num) {  
  
        this.num = num;  
  
    }  
  
    public static void main(String[] args) {  
  
        Test obj1 = new Test();  
  
        Test obj2 = new Test(10);  
  
        System.out.println(obj1.num + " " +  
obj2.num);  
  
    }  
}*
```

0 0

0 10 ✓

10 0

10 10

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

41. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str1 = "hello";  
  
        String str2 = "hello";  
  
        System.out.println(str1 == str2);  
  
    }  
  
} *
```

- true ✓
- false
- Compiler error
- Runtime error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

42. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str = "hello";  
  
        System.out.println(str.substring(1, 3));  
  
    }  
  
}
```

- hel
- ell ✓
- ello
- Compiler error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

43. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr);  
  
    }  
  
} *
```

[I@3c679bde ✓

0

null

Compiler error



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

44. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr[6]);  
  
    }  
  
} *
```

- 0
- 6
- `ArrayIndexOutOfBoundsException` ✓
- Compiler error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

45. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr1 = {1, 2, 3};  
  
        int[] arr2 = arr1.clone();  
  
        arr1[0] = 5;  
  
        System.out.println(arr2[0]);  
  
    }  
}
```

} \*

1 ✓

2

3

5

## Review: MCQ - VAC on "Web Application - JAVA Programming"

Respondent

18

HARIHARAN.A

46:17

Time to complete

42/60

Points

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

1. Which of the modifiers in the field is accessible from all classes? \*

public ✓

private

Inheritance

None of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

2. In Java, where can an object store its states? \*

- Directory
- Path
- Field ✓
- All of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

3. Which of the following classes is immutable in Java? \*

- ArrayList class
- Collection class
- String class ✓
- StringBuffer class



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

4. Which of the following statements about String class in Java? \*

- String class is immutable ✓
- String class is final
- String class is abstract
- String class is mutable

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

5. which of the following can be used as access modifiers of a method?

A) Private B) Public C) Protected D) Default \*

- a) Both B & C
- b) A, B & C
- c) B, C & D
- d) All of the given options ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

6. Which of the following classes is immutable in Java? \*

- ArrayList class
- Collection class
- String class ✓
- StringBuffer class

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

7. Which of the following methods belong to Object class?

- A. run()
- B. notify()
- C. start()
- D. wait()
- E. notifyAll() \*

- a) A, B and C
- b) B, D and E ✓
- c) A, B and E
- d) All of the given options

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

8. Exception and Error classes in Java extend which of the following classes directly? \*

- object
- NullPointerException
- Throwable class ✓
- None of above

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

9. Break statement is used to \*

- get out of method
- end a program
- get out of a loop ✓
- get out of the system

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

10. \_\_\_\_ method of the class String is used to compare two string objects for their equality

\*

equals() ✓

Equals()

isequal()

none

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

11. \_\_\_\_ is a superclass of all exceptional type classes in java \*

String

Runtime Exceptions

Throwable ✓

Cacheable



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

12. Choose the incorrect statement about a package \*

- Package defines a namespace in which classes are stored
- A package can contain another package within it
- Java uses file system directories to store packages
- A package can be renamed without renaming the directory in which the classes are stored ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

13. In object-oriented programming, Function overloading and operator overloading are examples of which of the following? \*

- Polymorphism ✓
- Abstraction
- Inheritance
- Encapsulation

✘ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

14. In object-oriented programming, Dynamic Binding is another name for which of the following? \*

- polymorphism ✓
- abstraction
- inheritance
- encapsulation

✘ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

15. Object-Oriented Programming offers which of the following in a better way, compared to Structured Programming in order to provide more flexibility? \*

- Polymorphism
- Abstraction
- Inheritance ✓
- Encapsulation

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

16. compareTo() returns \*

- true
- False
- An int value ✓
- none

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

17. In JDBC, which interface is used to establish a connection with a database? \*

- Statement
- ResultSet
- Connection ✓
- DriverManager

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

18. Which of the following statements is true about ODBC? \*

- It is specific to Java applications.
- It stands for Object-Oriented Database Connectivity.
- It provides a standard interface for connecting to databases. ✓
- It is primarily used for connecting to local databases only.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

19. What is the primary purpose of database connectivity? \*

- To create databases
- To query databases
- To manage databases
- To establish a connection between applications and databases ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

20. What is an exception in programming? \*

- An error that cannot be handled
- A special condition that changes the normal flow of program execution ✓
- A syntax error in the code
- A warning issued by the compiler

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

21. Which keyword is used in Java to handle exceptions? \*

- catch
- try ✓
- except
- throw



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

22. What happens if an exception occurs within the try block and there is no corresponding catch block? \*

- The program continues execution normally.
- The program terminates abruptly. ✓
- The program throws another exception.
- The program prints a warning message.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

23. What is the purpose of the finally block in exception handling? \*

- To catch exceptions
- To handle exceptions
- To execute code regardless of whether an exception occurs or not ✓
- To rethrow exceptions

✘ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

24. Which of the following statements is true about thread synchronization? \*

- It is used to increase thread independence.
- It ensures that only one thread can access a resource at a time. ✓
- It reduces thread safety.
- It is only necessary for single-threaded applications.

✘ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

25. Which of the following is NOT a thread scheduling algorithm? \*

- Round-robin
- First-come, first-served (FCFS)
- Shortest job next (SJN) ✓
- Priority-based scheduling

✘ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

26. Which access modifier restricts access to only the same class in which the member is declared? \*

- private ✓
- protected
- public
- package-private (default)

✔ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

27. In Java, can a subclass access a private member of its superclass? \*

- Yes, always
- No, never ✓
- Yes, if the subclass is in the same package
- Yes, if the subclass is declared within the same file as the superclass

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

28. What is the role of a static variable in Java? \*

- To store values that are specific to each instance of a class
- To store values that are common across all instances of a class ✓
- To store values that are local to a method
- To store values that are constant and cannot be modified

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

29. Which of the following statements is true about local variables? \*

- They have default values assigned by the compiler.
- They are accessible from any method within the same class.
- They must be explicitly initialized before use. ✓
- They are initialized to null by default.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

30. What is the scope of a local variable in Java? \*

- The entire class
- The method or block in which it is declared ✓
- All methods within the same package
- All methods within the same class



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

31. What will be the output of the following JAVA program?

```
class VAR
{
    public static void main(String args[])
    {
        int var1=5;
        int var2=6;
        if((var2=1)==var1)
            System.out.print(var2);
        else
            System.out.print(++var2);
    }
}*
```

1

2 ✓

3

4 System.out.print(++var2); }

✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

32. What will be the output of the following program?

```
public class increment  
{  
    public static void main(String args[])  
    {  
        int i=0;  
        i=i++ + i;  
        System.out.print("i="+i);  
    }  
} *
```

i=0

i=1 ✓

i=2

compile time error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

33. What is the output of the program?

```
class strEQ
{
public static void main(String args[])
{
String s1="hello";
String s2=new String(s1);
System.out.println(s1==s2);
}
}*
```

- True
- False ✓
- Compile time error
- Run time error

✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

34. What is the output of the program?

```
abstract class A
```

```
{
```

```
int i;
```

```
abstract void display();
```

```
}
```

```
class B extends A
```

```
{
```

```
int j;
```

```
void display()
```

```
{
```

```
System.out.println(j);
```

```
}
```

```
}
```

```
public class Abstract_demo
```

```
{
```

```
public static void main(String args[])
```

```
{
```

```
B obj=new B();
```

```
obj.j=2;
```

```
obj.display();
```

```
}
```

```
} *
```

a) 1



- b) compiler error
- c) run time error
- d) 2 ✓

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

35. What is the output of the following program?

```
class Numbers{  
  
    public static void main(String args[]){  
  
        int a=20, b=10;  
  
        if((a < b) && (b++ < 25)){  
  
            System.out.println("This is any  
language logic");  
  
        }  
  
        System.out.println(b);  
  
    } *  
}
```

- 12
- 11
- 10 ✓
- 13

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

36. What will be the output of following program?

```
class Test {  
  
    static String s = "";  
  
    public static void main(String[] args)  
    {  
  
        P:  
  
        for (int i = 2; i < 7; i++) {  
  
            if (i == 3)  
  
                continue;  
  
            if (i == 5)  
  
                break P;  
  
            s = s + i;    }  
  
        System.out.println(s);  
    } } *
```

- a) 32
- b) 23
- c) 24 ✓
- d) 42

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

37. Identify the output of the following program.

```
String str = "Hellow";  
System.out.println(str.indexOf('t')); *
```

- 0
- 1
- true
- 1 ✓

✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

38. Identify the output of the following program.

```
Public class Test{  
  
    Public static void main(String argos[]){  
  
        String str1 = "one";  
  
        String str2 = "two";  
  
  
        System.out.println(str1.concat(str2));  
  
    }  
}
```

- one
- two
- onetwo ✓
- twoone

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

39. What is the output of the following Java code snippet?

```
public class MyThread extends Thread {  
  
    public void run() {  
  
        System.out.println("Thread is running.");  
  
    }  
  
    public static void main(String[] args) {  
  
        MyThread thread = new MyThread();  
  
        thread.start();  
  
        System.out.println("Main thread is  
running.");  
  
    }  
} *
```

- Main thread is running. Thread is running. ✓
- Thread is running. Main thread is running.
- It's not possible to predict the output.
- Thread is running.



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

40. What will be the output of the following Java code?

```
class Test {  
  
    int num;  
  
    Test() {  
  
        num = 0;  
  
    }  
  
    Test(int num) {  
  
        this.num = num;  
  
    }  
  
    public static void main(String[] args) {  
  
        Test obj1 = new Test();  
  
        Test obj2 = new Test(10);  
  
        System.out.println(obj1.num + " " +  
obj2.num);  
  
    }  
}*
```

0 0

0 10 ✓

10 0

10 10

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

41. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str1 = "hello";  
  
        String str2 = "hello";  
  
        System.out.println(str1 == str2);  
  
    }  
  
} *
```

- true ✓
- false
- Compiler error
- Runtime error

✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

42. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str = "hello";  
  
        System.out.println(str.substring(1, 3));  
  
    }  
  
}
```

- hel
- ell ✓
- ello
- Compiler error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

43. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr);  
  
    }  
  
} *
```

[I@3c679bde ✓

0

null

Compiler error

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

44. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr[6]);  
  
    }  
  
} *
```

- 0
- 6
- `ArrayIndexOutOfBoundsException` ✓
- Compiler error



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

45. What will be the output of the following Java code?

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr1 = {1, 2, 3};  
  
        int[] arr2 = arr1.clone();  
  
        arr1[0] = 5;  
  
        System.out.println(arr2[0]);  
  
    }  
}
```

} \*

1 ✓

2

3

5



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**S.P.G.Chidambara Nadar - C.Nagammal Campus**

**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**

**Department of Information Technology**

**12. Test Report**

**Value Added Course**

**on**

**Web Application - JAVA Programming**



**KAMARAJA COLLEGE OF ENGINEERING & TECHNOLOGY**  
 (AN AUTONOMOUS INSTITUTION - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
 S.P.G.C. Nader, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

| DEPARTMENT OF INFORMATION TECHNOLOGY                           |          |                        |                                                        |                                              |                                                       |                                                   |                          |                                         |
|----------------------------------------------------------------|----------|------------------------|--------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------------------------------|--------------------------|-----------------------------------------|
| Value Added Course - Mark Statement                            |          |                        |                                                        |                                              |                                                       |                                                   |                          |                                         |
| Web Application - JAVA Programming - [12.02.2024 - 17.02.2024] |          |                        |                                                        |                                              |                                                       |                                                   |                          |                                         |
| Teams                                                          | Roll No  | Team Members           | PROJECT                                                |                                              |                                                       |                                                   | Project Final Marks [40] |                                         |
|                                                                |          |                        | Defining the Problem Statement and Objective (2 Marks) | Using OOPs Concept in the project (10 Marks) | Establishing Database Connection and Setup (10 Marks) | Writing and Executing Database Queries (10 Marks) |                          | Way of Presenting the Project (8 Marks) |
| TEAM-1                                                         | 22UIT047 | ISAAC PRADEEP RAJ.K. L | 2                                                      | 10                                           | 10                                                    | 8                                                 | 7                        | 37                                      |
|                                                                | 22UIT068 | ARJUN KANTH.K          |                                                        |                                              |                                                       |                                                   |                          |                                         |
|                                                                | 22UIT018 | SELVA KUMAR.R          |                                                        |                                              |                                                       |                                                   |                          |                                         |
| TEAM-2                                                         | 22UIT109 | MOTTAYA SAMY.K         |                                                        |                                              |                                                       |                                                   |                          |                                         |
|                                                                | 22UIT029 | JAYA SURYA.S           | 2                                                      | 9                                            | 9                                                     | 9                                                 | 8                        | 37                                      |
|                                                                | 22UIT011 | SANJAY PRABHU.V. J     |                                                        |                                              |                                                       |                                                   |                          |                                         |
|                                                                | 22UIT015 | KALIMUTHU.T            |                                                        |                                              |                                                       |                                                   |                          |                                         |
| TEAM-3                                                         | 22UIT046 | KASINATHAN.T           |                                                        |                                              |                                                       |                                                   |                          |                                         |
|                                                                | 22UIT095 | AGUSTIN JOSHUA.Y       | 2                                                      | 8                                            | 7                                                     | 7                                                 | 6                        | 30                                      |
|                                                                | 22UIT092 | ANANTHA GANESH.R       |                                                        |                                              |                                                       |                                                   |                          |                                         |
|                                                                | 22UIT081 | NAVEENKUMAR.S          |                                                        |                                              |                                                       |                                                   |                          |                                         |

|         |          |                         |   |    |    |    |    |   |    |
|---------|----------|-------------------------|---|----|----|----|----|---|----|
| TEAM-4  | 22UIT084 | SESHAN.N                | 2 | 8  | 8  | 8  | 8  | 6 | 32 |
|         | 22UIT105 | ASLAM ASHIK.K           |   |    |    |    |    |   |    |
|         | 22UIT102 | SIVA SANKARA PANDI.S    |   |    |    |    |    |   |    |
| TEAM-5  | 22UIT064 | SANTHOSH THANGASEELAN.S | 2 | 9  | 10 | 10 | 10 | 7 | 38 |
|         | 22UIT073 | HARIHARAN.A             |   |    |    |    |    |   |    |
|         | 22UIT043 | PRAVEEN.M               |   |    |    |    |    |   |    |
| TEAM-6  | 22UIT080 | HARISH RAGHAVENDRA.S    | 2 | 9  | 9  | 9  | 9  | 7 | 36 |
|         | 22UIT118 | NAGARAJAN.P             |   |    |    |    |    |   |    |
|         | 22UIT037 | RICKY JOEL.J            |   |    |    |    |    |   |    |
| TEAM-7  | 22UIT088 | ARUN.P                  | 2 | 7  | 8  | 8  | 8  | 7 | 32 |
|         | 22UIT028 | ASHVIN KUMAR.M          |   |    |    |    |    |   |    |
|         | 22UIT058 | MANIKANDAN.M            |   |    |    |    |    |   |    |
| TEAM-8  | 22UIT031 | HARINI.U                | 2 | 8  | 7  | 7  | 7  | 7 | 31 |
|         | 22UIT017 | SHERIN.M                |   |    |    |    |    |   |    |
|         | 22UIT039 | AKSHAYA BALA.A          |   |    |    |    |    |   |    |
| TEAM-9  | 22UIT103 | SERREEN FATHIMA GANI.M  | 2 | 9  | 9  | 9  | 9  | 8 | 37 |
|         | 22UIT094 | MONIGA.P                |   |    |    |    |    |   |    |
|         | 22UIT059 | SANTHIY.A.K             |   |    |    |    |    |   |    |
| TEAM-10 | 22UIT069 | PRIYAJAYAM.K            | 2 | 10 | 9  | 10 | 10 | 7 | 38 |
|         | 22UIT060 | POOJA.R                 |   |    |    |    |    |   |    |
|         | 22UIT100 | SURIYAJAYASUBISRI.S     |   |    |    |    |    |   |    |

|         |          |                 |   |    |    |   |   |    |
|---------|----------|-----------------|---|----|----|---|---|----|
| TEAM-11 | 22UIT045 | DEEPIKA.M       | 2 | 9  | 10 | 9 | 8 | 38 |
|         | 22UIT114 | KAVYA.R         |   |    |    |   |   |    |
|         | 22UIT083 | ABINAYA SELV.S  |   |    |    |   |   |    |
| TEAM-12 | 22UIT054 | AFRIN THAYUFA.S | 2 | 10 | 10 | 9 | 8 | 39 |
|         | 22UIT115 | DEEPASRI.R      |   |    |    |   |   |    |
|         | 22UIT051 | JANAVARSHINI.G  |   |    |    |   |   |    |
|         | 22UIT096 | HEMADHARSHINI.R |   |    |    |   |   |    |
| TEAM-13 | 22UIT009 | AKSHAYAA.M      | 2 | 10 | 10 | 9 | 7 | 38 |
|         | 22UIT098 | GAYATHRI.J      |   |    |    |   |   |    |
|         | 22UIT104 | GNANA JERSHA.J  |   |    |    |   |   |    |
| TEAM-14 | 22UIT078 | SUDHAA SHREE.K  | 2 | 9  | 10 | 9 | 8 | 38 |
|         | 22UIT023 | DHARSHINI.S     |   |    |    |   |   |    |
|         | 22UIT076 | MADHUBALA.K     |   |    |    |   |   |    |

*S. Jayaraj*

VAC Coordinator

[MRS. S. LAKSHMI]

*[Signature]*

HOD/IT

[DR. E. UDAYAKUMAR]





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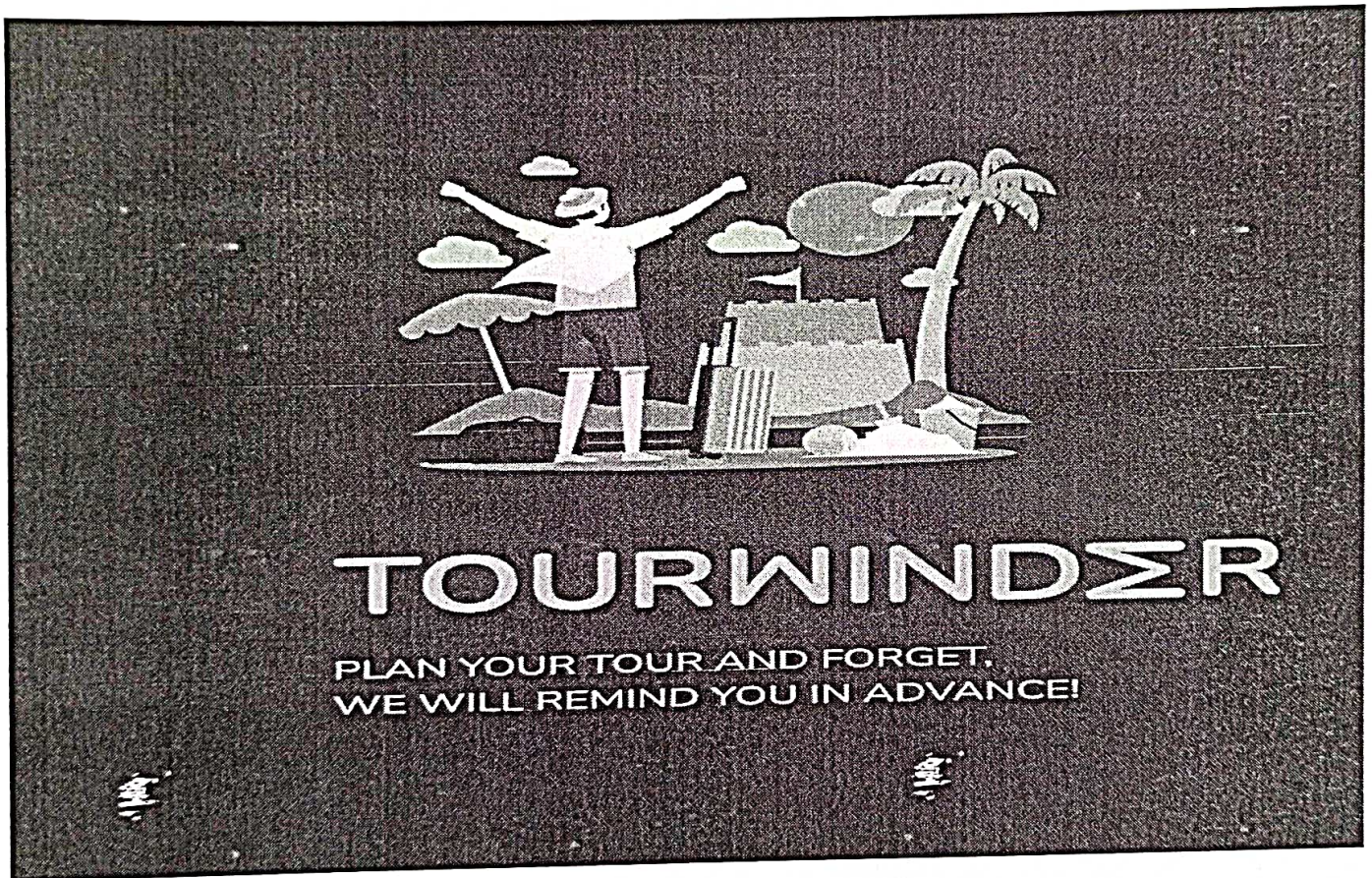
## VALUE ADDED COURSE

"VAC (Web Application - Java Programming) "

12.02.2024 TO 17.02.2024

## ONLINE TRAVEL PLANNER APP

### PROJECT REPORT



#### SUBMITTED BY:

S.Abinaya Selvi (22UIT083)

R.Kavya (22UIT114)

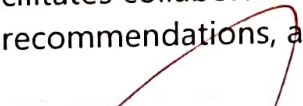
M.Deepika (22UIT045)



## ABSTRACT

JourneyMate is a comprehensive travel planner application designed to meet the diverse needs of modern-day travelers. In an era where exploration and adventure are cherished, JourneyMate emerges as a digital companion, offering an extensive array of features to streamline every aspect of trip planning, management, and enjoyment.

### Key Features:

1. **Personalized Itinerary Crafting:** JourneyMate empowers users to curate bespoke travel itineraries tailored to their preferences, interests, and schedules. With intuitive drag-and-drop functionality, users can effortlessly plan activities, reserve accommodations, and arrange transportation, ensuring a seamless and customized travel experience.
  2. **Destination Discovery and Exploration:** JourneyMate opens the doors to a world of possibilities, allowing users to explore a vast repository of destinations worldwide. From iconic landmarks to hidden gems, the app provides comprehensive insights into each location, including attractions, cultural highlights, dining options, and local customs, enabling users to make informed decisions about their travel destinations.
  3. **Dynamic Budget Management:** Keeping track of expenses is simplified with JourneyMate's dynamic budget management tools. Users can set flexible budgets for various aspects of their trips, receive real-time expenditure updates, and monitor spending patterns to stay within their financial constraints without compromising on the quality of their travel experiences.
  4. **Real-Time Intelligence and Notifications:** JourneyMate keeps users informed with real-time updates and notifications on critical travel information, including flight schedules, weather forecasts, traffic conditions, and safety advisories. By providing timely insights and alerts, the app empowers users to adapt to changing circumstances and navigate potential disruptions effectively.
  5. **Seamless Integration and Collaboration:** JourneyMate seamlessly integrates with third-party services, including hotel booking platforms, airline reservation systems, and activity providers, offering users a unified platform to fulfill all their travel needs. Moreover, the app facilitates collaborative trip planning, enabling users to share itineraries, exchange recommendations, and coordinate activities with friends, family, or fellow travelers.
- 

## **OBJECTIVE :**

The primary objective of developing a travel planner app is to provide users with a comprehensive and user-friendly platform to plan, organize, and manage their travel experiences efficiently. The app aims to address the following key objectives:

1. **Simplify Trip Planning:** The app should streamline the process of planning a trip by providing intuitive tools and features that enable users to create personalized itineraries based on their preferences, interests, and budget constraints.
2. **Enhance User Experience:** The app should offer a seamless and enjoyable user experience through a clean and intuitive interface, quick navigation, and responsive design across various devices and screen sizes.
3. **Provide Destination Insights:** The app should provide users with detailed information about destinations, including popular attractions, local culture, cuisine, climate, transportation options, and safety advisories, to help them make informed decisions about their travel destinations.
4. **Facilitate Budget Management:** The app should include budget management tools that allow users to set, track, and manage their travel expenses, allocate funds to different categories such as accommodations, transportation, dining, and activities, and receive alerts for budget overruns.
5. **Offer Real-Time Updates:** The app should provide users with real-time updates and notifications about important travel-related information, including flight status, weather forecasts, traffic conditions, local events, and emergency alerts, to help them stay informed and prepared during their travels.
6. **Enable Social Sharing and Collaboration:** The app should enable users to share their travel plans, experiences, and recommendations with friends, family, or fellow travelers through social media integration and collaborative features, fostering a sense of community and camaraderie among users.
7. **Ensure Data Security and Privacy:** The app should prioritize the security and privacy of user data by implementing robust encryption, authentication, and authorization



mechanisms, complying with industry standards and regulations, and providing transparent policies regarding data collection, storage, and sharing.

By achieving these objectives, the travel planner app aims to empower users to plan and enjoy memorable and hassle-free travel experiences, whether they are embarking on solo adventures, family vacations, business trips, or group tours.

## **Outcomes :**

1. **Streamlined Trip Planning Process:** With a travel planner app developed using Java, users experience a streamlined trip planning process. They can efficiently organize their itineraries, manage bookings, and explore destinations within a single platform, reducing the time and effort required for travel planning.
2. **Enhanced User Experience:** Java-based travel planner apps often offer an intuitive user interface and smooth navigation, enhancing the overall user experience. Users can easily access features, search for destinations, and customize their travel plans according to their preferences, leading to higher satisfaction and engagement.
3. **Improved Accessibility and Availability:** Java's platform independence allows travel planner apps to be accessible across various devices and operating systems. Users can access the app through desktops, laptops, smartphones, and tablets, ensuring availability and convenience wherever they go.
4. **Efficient Data Management:** Java's robust data management capabilities enable travel planner apps to handle vast amounts of information efficiently. From storing user profiles and preferences to managing booking details and destination data, Java-powered apps ensure smooth data processing and retrieval, enhancing performance and reliability.
5. **Real-Time Updates and Notifications:** Java-based travel planner apps can leverage APIs and external services to provide users with real-time updates and notifications about travel-related information. Users receive alerts about flight delays, weather changes, local events, and booking confirmations, enabling them to stay informed and adapt their plans accordingly.

6. Secure and Reliable Platform: Java's strong security features and mature ecosystem contribute to the development of secure and reliable travel planner apps. Developers can implement encryption, authentication, and authorization mechanisms to safeguard user data and transactions, ensuring trust and confidence among users.

7. Collaborative Features: Java-powered travel planner apps can incorporate collaborative features that enable users to share itineraries, recommendations, and experiences with friends, family, or travel companions. Users can collaborate in real-time, coordinate activities, and synchronize plans, fostering a sense of community and camaraderie among travelers.

Overall, a travel planner app developed using Java offers numerous benefits, including streamlined trip planning, enhanced user experience, improved accessibility, efficient data management, real-time updates, security, reliability, and collaborative features, empowering users to plan and enjoy memorable travel experiences with ease and convenience.

## **Introduction :**

In the bustling realm of modern travel, where exploration meets adventure and wanderlust knows no bounds, the need for a comprehensive and efficient travel planning solution has never been more apparent. Enter the Travel Planner App, a digital companion designed to revolutionize the way individuals conceptualize, organize, and experience their journeys.

At its core, the Travel Planner App represents a convergence of technology and wanderlust, offering users a seamless platform to navigate the intricate landscape of travel with ease and confidence. Whether embarking on a solo expedition, planning a family getaway, or coordinating a group retreat, this app serves as a versatile toolkit, empowering travelers to transform their aspirations into tangible itineraries and unforgettable experiences.

The Travel Planner App is more than just a tool for scheduling flights and booking accommodations; it embodies the spirit of exploration and discovery. It invites users to embark on a virtual journey, where every destination becomes a gateway to adventure and every experience an opportunity for enrichment.



## Methodology :

1. **Requirement Analysis:** Begin by understanding the needs and expectations of users. Conduct surveys, interviews, and market research to identify key features, target audience, and competitors. Define the scope, objectives, and constraints of the project to guide development efforts.
2. **Design Phase:**
  - **User Interface Design:** Design intuitive and user-friendly interfaces using tools like Sketch, Adobe XD, or Figma. Focus on creating a seamless user experience with easy navigation and clear visual hierarchy.
  - **Database Design:** Design the database schema to store user profiles, travel itineraries, destination information, booking details, and other relevant data. Choose appropriate database management systems (e.g., MySQL, PostgreSQL) for data storage and retrieval.
3. **Technology Selection:**
  - Choose Java as the primary programming language for backend development due to its robustness, scalability, and platform independence.
  - Select relevant Java frameworks and libraries such as Spring Boot, Hibernate, and Apache Maven to streamline development and enhance productivity.
4. **Backend Development:**
  - Set up the development environment and configure necessary dependencies.
  - Implement user authentication and authorization mechanisms to ensure secure access to the application.
  - Develop RESTful APIs to handle CRUD operations for managing user accounts, travel itineraries, destinations, bookings, and other functionalities.
  - Integrate third-party APIs for fetching real-time data such as flight schedules, weather forecasts, and accommodation availability.
5. **Integration and Testing:**
  - Integrate the frontend and backend components to create a cohesive application.
  - Conduct unit tests, integration tests, and end-to-end tests to identify and rectify bugs, errors, and performance issues.
  - Perform user acceptance testing (UAT) with a focus group to gather feedback and validate the application's functionality, usability, and performance.
6. **Deployment and Maintenance:**
  - Deploy the application on a web server or cloud platform (e.g., AWS, Heroku) for public access.
  - Monitor application performance, security vulnerabilities, and user feedback to identify areas for improvement.

- Regularly update the application with new features, enhancements, and bug fixes based on user feedback and evolving market trends.

## 7. **Documentation and Training:**

- Document the application architecture, design decisions, API endpoints, and deployment procedures for future reference.
- Provide user documentation and training materials to help users navigate the application effectively and utilize its features to the fullest.

By following this methodology, developers can build a robust and user-friendly travel planner app using Java, catering to the diverse needs of modern travelers while ensuring scalability, security, and reliability.

## **Backend Development:**

### **Java Code For a Travel Planner App :**

```
package planner2;
```

```
import java.util.Scanner;
```

```
public class Planner4 {
```

```
    public static void main(String[] args) {
```

```
        String[] destinations = {"SriLanka", "Malaysia", "Singapore"};
```

```
        int[][] prices = {  
            {5000, 2000, 1500},  
            {4800, 1900, 1400},  
            {3200, 1800, 1300}  
        };
```

```
        String[][] foods = {
```

```
            {"North Indian Thali", "Southern Traditional Food", "Chinese Cuisine"},  
            {"North Indian Thali", "Southern Traditional Food", "Chinese Cuisine"},  
            {"North Indian Thali", "Southern Traditional Food", "Chinese Cuisine"}  
        }
```

```
};
```

```
Scanner scanner = new Scanner(System.in);
```

```
System.out.println("Welcome to Travel Planner!");  
System.out.println("Available destinations:");
```

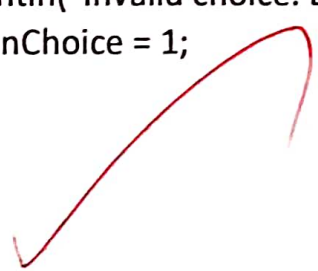
```
for (int i = 0; i < destinations.length; i++) {  
    System.out.println((i+1) + ". " + destinations[i]);  
}
```

```
System.out.println("Please select your destination (1-" + destinations.length + "):");  
int destinationChoice = scanner.nextInt();
```

```
if (destinationChoice < 1 || destinationChoice > destinations.length) {  
    System.out.println("Invalid choice. Defaulting to SriLanka.");  
    destinationChoice = 1;  
}
```

```
System.out.println("Select your accommodation:");  
System.out.println("1. 5-star hotel - Rs" + prices[destinationChoice - 1][0] + " 4 days");  
System.out.println("2. 4-star hotel - Rs" + prices[destinationChoice - 1][1] + " 3 days");  
System.out.println("3. 3-star hotel - Rs" + prices[destinationChoice - 1][2] + " 2 days");  
int accommodationChoice = scanner.nextInt();
```

```
if (accommodationChoice < 1 || accommodationChoice > 3) {  
    System.out.println("Invalid choice. Defaulting to 5-star hotel.");  
    accommodationChoice = 1;  
}
```

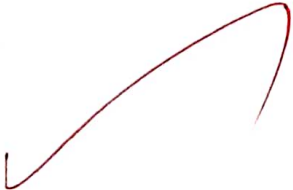


```
System.out.println("Select your food option:");
System.out.println("1. North Indian Thali");
System.out.println("2. Southern Traditional Food");
System.out.println("3. Chinese Cuisine");
int foodChoice = scanner.nextInt();
```

```
if (foodChoice < 1 || foodChoice > 3) {
    System.out.println("Invalid choice. Defaulting to North Indian Thali.");
    foodChoice = 1;
}
```

```
// Add payment method selection
System.out.println("Select your payment method:");
System.out.println("1. Credit Card");
System.out.println("2. Debit Card");
System.out.println("3. UPI");
int paymentMethodChoice = scanner.nextInt();
String paymentMethod = "";
switch (paymentMethodChoice) {
    case 1:
        paymentMethod = "Credit Card";
        break;
    case 2:
        paymentMethod = "Debit Card";
        break;
    case 3:
        paymentMethod = "UPI";
        break;
    default:
        paymentMethod = "Unknown Payment Method";
        break;
}
```

```
String destination = destinations[destinationChoice - 1];
double priceAccommodation = prices[destinationChoice - 1][accommodationChoice - 1];
String accommodation = (accommodationChoice == 1) ? "5-star hotel" :
((accommodationChoice == 2) ? "4-star hotel" : "3-star hotel");
String food = foods[destinationChoice - 1][foodChoice - 1];
double priceFood = 0;
switch (foodChoice) {
```





```
case 1:
    priceFood = 1100; // Set price for North Indian Thali
    break;
case 2:
    priceFood = 1200; // Set price for Southern Traditional Food
    break;
case 3:
    priceFood = 1000; // Set price for Chinese Cuisine
    break;
}

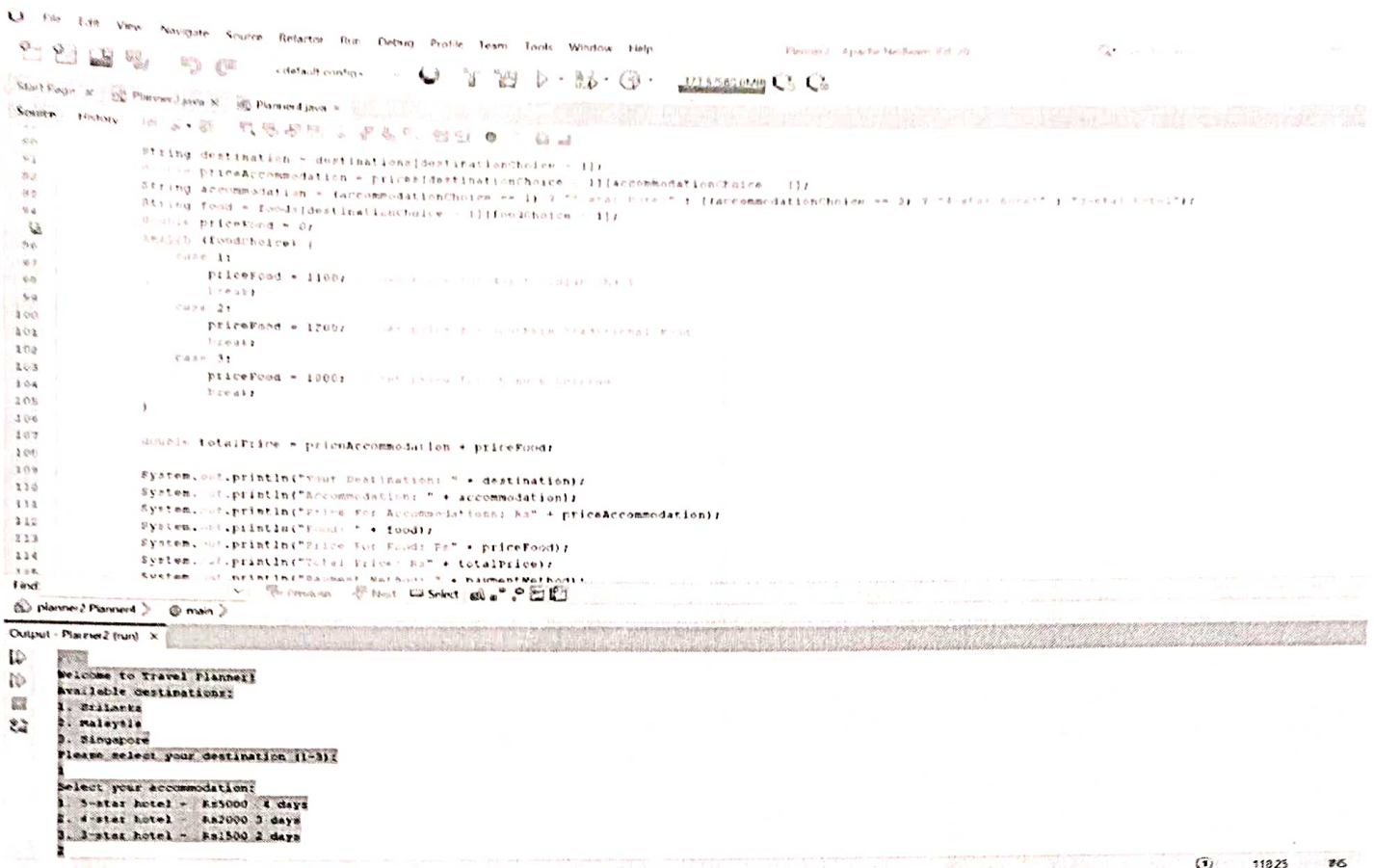
double totalPrice = priceAccommodation + priceFood;

System.out.println("Your Destination: " + destination);
System.out.println("Accommodation: " + accommodation);
System.out.println("Price For Accommodations: Rs" + priceAccommodation);
System.out.println("Food: " + food);
System.out.println("Price For Food: Rs" + priceFood);
System.out.println("Total Price: Rs" + totalPrice);
System.out.println("Payment Method: " + paymentMethod);

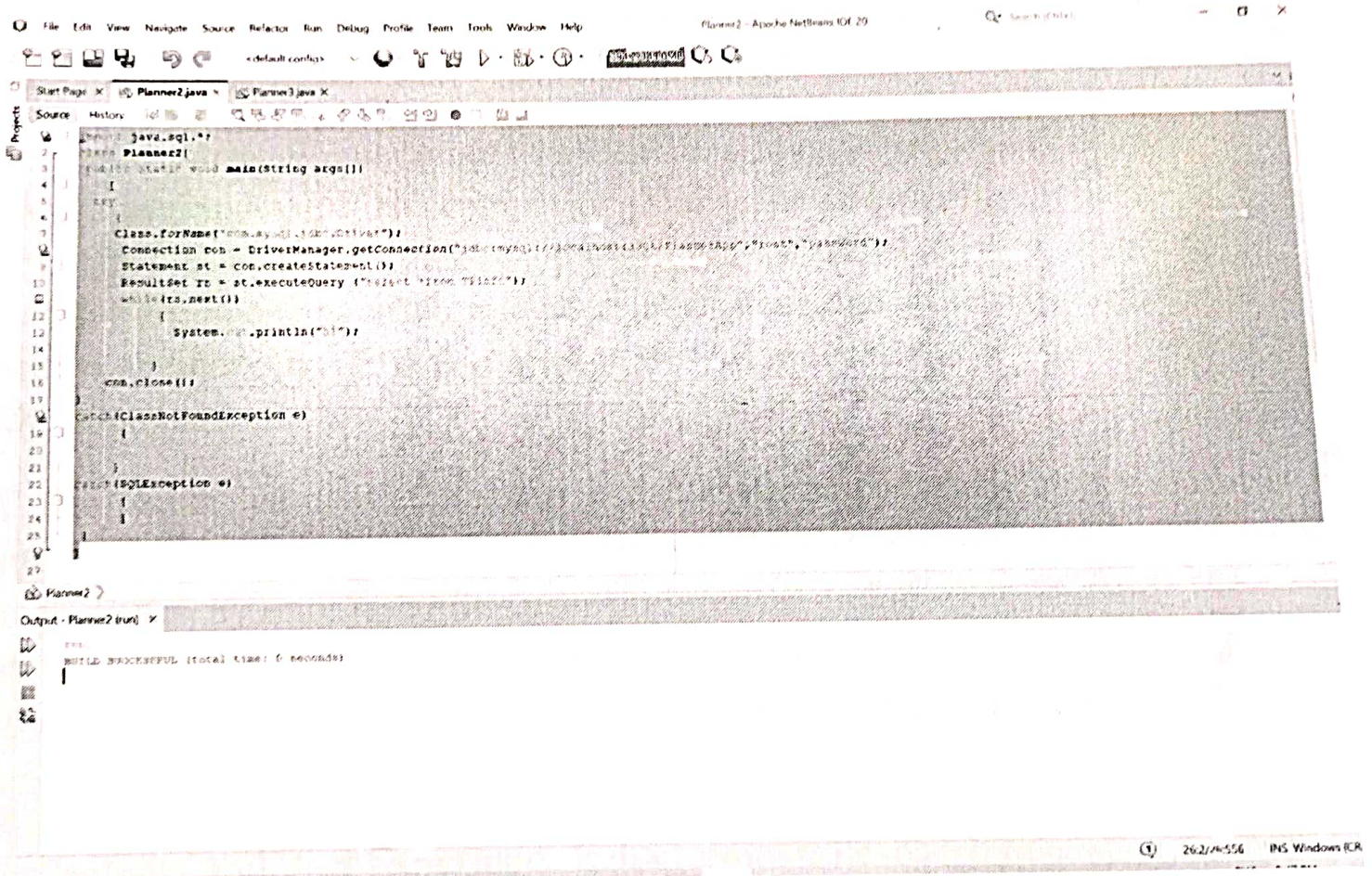
scanner.close();
}
}
```







```
    }
    con.close();
}
catch(ClassNotFoundException e)
{
}
catch(SQLException e)
{
}
}
```





## **Benefits Of Research:**

Research plays a crucial role in the development and enhancement of travel planner apps, offering numerous benefits that contribute to their effectiveness, usability, and overall success. Some key benefits of research in the context of travel planner apps include:

1. **Understanding User Needs:** Research helps developers gain insights into the specific needs, preferences, and pain points of travelers. By conducting surveys, interviews, and usability studies, developers can identify user requirements and design features that align with user expectations, thereby enhancing user satisfaction and adoption rates.
2. **Market Analysis and Competitor Benchmarking:** Research allows developers to analyze the competitive landscape and identify trends, emerging technologies, and best practices in the travel industry. By studying competitor offerings and market dynamics, developers can differentiate their travel planner app, identify opportunities for innovation, and stay ahead of the competition.
3. **Optimized Feature Set:** Research enables developers to prioritize features and functionalities based on their relevance, feasibility, and impact on user experience. By understanding user preferences and market demands, developers can focus on developing features that add value to the app and address specific pain points faced by travelers, thereby maximizing user engagement and retention.
4. **Usability and User Experience Enhancement:** Research helps developers design intuitive and user-friendly interfaces that streamline the travel planning process and enhance usability. By conducting usability tests and gathering feedback from users, developers can identify usability issues, refine interface design elements, and optimize user flows to create a seamless and enjoyable user experience.



5. **Integration of Real-Time Data and Services:** Research enables developers to integrate real-time data and services such as flight schedules, hotel availability, weather forecasts, and local events into the travel planner app. By leveraging APIs and external data sources, developers can provide users with up-to-date information, personalized recommendations, and timely alerts, thereby enhancing the utility and relevance of the app.


6. **Security and Privacy Considerations:** Research helps developers identify security vulnerabilities and privacy concerns associated with travel planner apps. By implementing robust security measures, encryption protocols, and data protection mechanisms, developers can safeguard user data, prevent unauthorized access, and build trust among users, thereby enhancing the credibility and reputation of the app.

7. **Continuous Improvement and Iterative Development:** Research is an ongoing process that enables developers to gather feedback, analyze user behavior, and iterate on the app's features and functionalities. By monitoring user engagement metrics, conducting A/B tests, and soliciting user feedback, developers can identify areas for improvement, prioritize future enhancements, and ensure that the app remains relevant and competitive in the ever-evolving travel industry.

In summary, research plays a critical role in the development, optimization, and evolution of travel planner apps, enabling developers to create innovative solutions that meet the evolving needs of travelers and deliver exceptional user experiences.

### **Conclusion:**

The Java-based Travel Planner App aims to simplify the process of travel planning and enhance the overall travel experience for users. By integrating essential features and leveraging technology, the app empowers travelers to explore new destinations, organize their trips efficiently, and make informed decisions while on the go.



| <b>Rubrics for Project</b>                               |           |
|----------------------------------------------------------|-----------|
| Objective of the project (2 Marks)                       | 2         |
| Using OOPS concept in the project<br>(10 Marks)          | 9         |
| Establishing Database Connection and Setup<br>(10 Marks) | 10        |
| Writing and Executing Database Queries<br>(10 Marks)     | 9         |
| Way of presenting the project (8 Marks)                  | 8         |
| <b>Total</b>                                             | <b>38</b> |

[S. KAYATHAR, APJIT]  
 ✓ you  
 17/2/24





**(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)**  
S.P.G.Chidambara Nadar - C.Nagammal Campus  
S.P.G.C. Nagar, K.Velakulam - 625 701 (Near VIRUDHUNAGAR).

## **DEPARTMENT OF INFORMATION TECHNOLOGY**

**VALUE ADDED COURSE**

**WEB APPLICATION USING JAVA**

**12.02.2024 to 17.02.2024**

**PROJECT REPORT**

**\*\*AIRWAYS TICKET BOOKING\*\***

**Submitted By-**

**Kasinathan T(22UIT046) ,  
Agustin Joshua Y(22UIT095),  
Naveen Kumar S(22UIT081),  
Anantha Ganesh R(22UIT092)**

**Project Name** – Airways Ticket Booker

**Project Members** – Kasinathan T(22UIT046) ,Agustin Joshua Y(22UIT095),

Naveen Kumar S(22UIT081), Anantha Ganesh R(22UIT092)

**AIM:**

The aim of this Java code is to create a simple ticket booking system for flights. The program initializes a list of available seats, allows users to book tickets for these seats, and updates the seat availability status in a MySQL database. The code also displays the current seat status after each booking.

**PROCEDURE:**

1. The program starts by creating an instance of the TicketBooker class and invoking its display method to show the initial seat status.
2. Users are prompted to enter the number of tickets they want to book, and then enter the seat numbers they wish to book.
3. The bookTicket method processes the user input, checks if the selected seats are available, and updates the seat status accordingly. It also displays the success or failure message for each booking.
4. After all bookings are completed, the program displays the updated seat availability status.
5. The display method queries the MySQL database to retrieve and print the current seat status (seat number, booked status) after the bookings are made.

## CODE:

```
import
java.util.*;
import java.sql.*;
```

```
public class TicketBooker extends
Booker{ public static void main(String[]
args){
    TicketBooker tb = new
    TicketBooker(); tb.display();
    tb.bookTicket();
    tb.display();
}
}
```

```
class Flight{
    private int SeatNum;
    private Boolean
    Booked;
    Flight(int SeatNum){
        this.SeatNum =
        SeatNum;
        this.Booked=false;
    }
    int getSm(){
        return SeatNum;
    }
    Boolean
    getBooked(){ return
    Booked;
    }
    void setBooked(Boolean
    Booked){ this.Booked=Booked;
    }
}
```

```
class Booker
{
```

```
    Connection con;
    private ArrayList<Flight>
    ticket; Booker(){
        this.ticket = new
        ArrayList<>(); try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            this.con
            =DriverManager.getConnection("jdbc:mysql://localhost:3306/ticketbooker","root","ktjk@4474");
```

```

        System.out.println(con);
    }
    catch(Exception e)
    {
    }
}
void add(int seat){
    Flight f = new
    Flight(seat);
    ticket.add(f);
    try
    {
        String sql = "INSERT INTO booker(Seats,Numbers,Availability) VALUES(?,?,?)";
        PreparedStatement stat = con.prepareStatement(sql);
        String a="Seat_Number";
        stat.setString(1,a);
        stat.setInt(2,seat);
        stat.setBoolean(3,false);
        stat.executeQuery();
    }
    catch(Exception e)
    {

    }

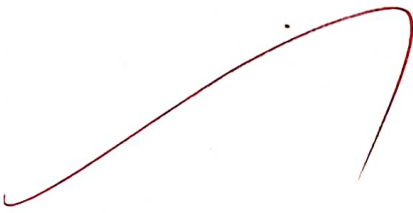
}
void bookTicket(){
    Scanner sc = new Scanner(System.in);
    System.out.println("Total Number of Seats Available--30");

    System.out.println("How many tickets you want to book");
    System.out.println("");
    int k=sc.nextInt();
    int temp=k;
    while(k>0)
    {
        System.out.println("Enter the Seat Number To be Booked");

        int st=sc.nextInt();
        Flight y=ticket.get(st-
        1);
        if(y.getBooked()==true)
            System.out.println("Can't be
            Booked"); else{
                System.out.println("Seat Number"+" "+st+" "+ "Booked Successfully");
                System.out.println("");
            }
    }
}

```

```
        y.setBooked(true)
        ; k--;
    }
}
System.out.println("\n");
System.out.println("Available Seats "+" "+(30-
temp)); System.out.println("\n");
}
void display(){
    try{
        Statement st = con.createStatement();
        ResultSet rs = st.executeQuery("select * from booker");
        while(rs.next()){
            System.out.println(rs.getString(1)+" "+rs.getInt(2)+" "+rs.getBoolean(3));
        }
    }catch(Exception e){
        System.out.println(e);
    }
}
}
```





# OUTPUT:

```
C:\Users\Jegat\Downloads\jdk\bin>java TicketBooker
Seat No:1=false
Seat No:2=false
Seat No:3=false
Seat No:4=false
Seat No:5=false
Seat No:6=false
Seat No:7=false
Seat No:8=false
Seat No:9=false
Seat No:10=false
Seat No:11=false
Seat No:12=false
Seat No:13=false
Seat No:14=false
Seat No:15=false
Seat No:16=false
Seat No:17=false
Seat No:18=false
Seat No:19=false
Seat No:20=false
Seat No:21=false
Seat No:22=false
Seat No:23=false
Seat No:24=false
Seat No:25=false
Seat No:26=false
Seat No:27=false
Seat No:28=false
Seat No:29=false
Seat No:30=false
Total Number of Seats Available--30
How many tickets you want to book
5
Enter the Seat Number To be Booked
1
Seat Number 1Booked Successfully
Enter the Seat Number To be Booked
5
Seat Number 5Booked Successfully
Enter the Seat Number To be Booked
10
Seat Number 10Booked Successfully
Enter the Seat Number To be Booked
15
Seat Number 15Booked Successfully
Enter the Seat Number To be Booked
20
Seat Number 20Booked Successfully
Available Seats 25
Seat No:1=true
Seat No:2=false
Seat No:3=false
Seat No:4=false
Seat No:5=true
Seat No:6=false
Seat No:7=false
Seat No:8=false
Seat No:9=false
Seat No:10=true
Seat No:11=false
Seat No:12=false
Seat No:13=false
Seat No:14=false
Seat No:15=true
Seat No:16=false
Seat No:17=false
Seat No:18=false
Seat No:19=false
Seat No:20=true
Seat No:21=false
Seat No:22=false
Seat No:23=false
Seat No:24=false
Seat No:25=false
Seat No:26=false
Seat No:27=false
Seat No:28=false
Seat No:29=false
Seat No:30=false
```





### Rubrics for Project

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| Objective of the project (2 Marks)                              | 2         |
| Using OOPS concept in the project<br>(10 Marks)                 | 8         |
| Establishing Database Connection and <u>Setup</u><br>(10 Marks) | 7         |
| Writing and Executing Database Queries<br>(10 Marks)            | 7         |
| Way of presenting the project (8 Marks)                         | 6         |
| <b>Total</b>                                                    | <b>30</b> |

BY

V.V.  
17/2/2024  
[V. WYATHRE, AP/IT]

Kasinathan T(22UIT046)

Agustin Joshua Y(22UIT095),

Naveen Kumar S(22UIT081),

Anantha Ganesh R(22UIT092)

# MCQ - VAC on "Web Application - JAVA Programming"

45 Responses

52.0 Average Score

Active Status

1. Which of the modifiers in the field is accessible from all classes? (1 point)  
96% of respondents (43 of 45) answered this question correctly.

|                                                 |    |   |
|-------------------------------------------------|----|---|
| <input checked="" type="radio"/> public         | 43 | ✓ |
| <input type="radio"/> private                   | 0  |   |
| <input type="radio"/> Inheritance               | 2  |   |
| <input type="radio"/> None of the given options | 0  |   |



2. In Java, where can an object store its states? (1 point)  
96% of respondents (43 of 45) answered this question correctly.

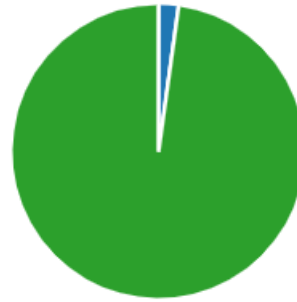
|                                                |    |   |
|------------------------------------------------|----|---|
| <input type="radio"/> Directory                | 0  |   |
| <input type="radio"/> Path                     | 0  |   |
| <input checked="" type="radio"/> Field         | 43 | ✓ |
| <input type="radio"/> All of the given options | 2  |   |



3. Which of the following classes is immutable in Java? (1 point)

98% of respondents (44 of 45) answered this question correctly.

|                                  |                    |      |
|----------------------------------|--------------------|------|
| <input type="radio"/>            | ArrayList class    | 1    |
| <input type="radio"/>            | Collection class   | 0    |
| <input checked="" type="radio"/> | String class       | 44 ✓ |
| <input type="radio"/>            | StringBuffer class | 0    |



4. Which of the following statements about String class in Java? (1 point)

89% of respondents (40 of 45) answered this question correctly.

|                                  |                           |      |
|----------------------------------|---------------------------|------|
| <input checked="" type="radio"/> | String class is immutable | 40 ✓ |
| <input type="radio"/>            | String class is final     | 2    |
| <input type="radio"/>            | String class is abstract  | 0    |
| <input type="radio"/>            | String class is mutable   | 3    |



5. which of the following can be used as access modifiers of a method? (1 point)

A) Private B) Public C) Protected D) Default

40% of respondents (18 of 45) answered this question correctly.

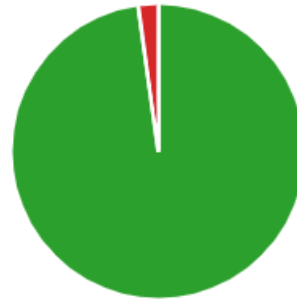
|                                  |                             |      |
|----------------------------------|-----------------------------|------|
| <input type="radio"/>            | a) Both B & C               | 6    |
| <input type="radio"/>            | b) A, B & C                 | 14   |
| <input type="radio"/>            | c) B, C & D                 | 7    |
| <input checked="" type="radio"/> | d) All of the given options | 18 ✓ |



6. Which of the following classes is immutable in Java? (1 point)

98% of respondents (44 of 45) answered this question correctly.

|                                  |                    |      |
|----------------------------------|--------------------|------|
| <input type="radio"/>            | ArrayList class    | 0    |
| <input type="radio"/>            | Collection class   | 0    |
| <input checked="" type="radio"/> | String class       | 44 ✓ |
| <input type="radio"/>            | StringBuffer class | 1    |



7. Which of the following methods belong to Object class? (1 point)

- A. run()
- B. notify()
- C. start()
- D. wait()
- E. notifyAll()

78% of respondents (35 of 45) answered this question correctly.

|                                  |                             |      |
|----------------------------------|-----------------------------|------|
| <input type="radio"/>            | a) A, B and C               | 2    |
| <input checked="" type="radio"/> | b) B, D and E               | 35 ✓ |
| <input type="radio"/>            | c) A, B and E               | 0    |
| <input type="radio"/>            | d) All of the given options | 8    |



8. Exception and Error classes in Java extend which of the following classes directly? (1 point)

89% of respondents (40 of 45) answered this question correctly.

|                                  |                      |      |
|----------------------------------|----------------------|------|
| <input type="radio"/>            | object               | 4    |
| <input type="radio"/>            | NullPointerException | 1    |
| <input checked="" type="radio"/> | Throwable class      | 40 ✓ |
| <input type="radio"/>            | None of above        | 0    |





## 9. Break statement is used to (1 point)

91% of respondents (41 of 45) answered this question correctly.

|                                                    |      |
|----------------------------------------------------|------|
| <input type="radio"/> get out of method            | 3    |
| <input type="radio"/> end a program                | 0    |
| <input checked="" type="radio"/> get out of a loop | 41 ✓ |
| <input type="radio"/> get out of the system        | 1    |



## 10. \_\_\_\_ method of the class String is used to compare two string objects for their equality (1 point)

98% of respondents (44 of 45) answered this question correctly.

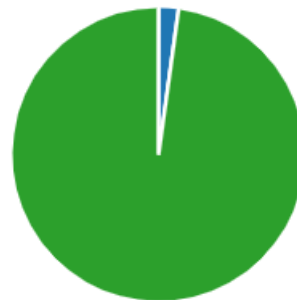
|                                           |      |
|-------------------------------------------|------|
| <input checked="" type="radio"/> equals() | 44 ✓ |
| <input type="radio"/> Equals()            | 0    |
| <input type="radio"/> isequal()           | 1    |
| <input type="radio"/> none                | 0    |



## 11. \_\_\_\_ is a superclass of all exceptional type classes in java (1 point)

98% of respondents (44 of 45) answered this question correctly.

|                                            |      |
|--------------------------------------------|------|
| <input type="radio"/> String               | 1    |
| <input type="radio"/> Runtime Exceptions   | 0    |
| <input checked="" type="radio"/> Throwable | 44 ✓ |
| <input type="radio"/> Cacheable            | 0    |



## 12. Choose the incorrect statement about a package (1 point)

71% of respondents (32 of 45) answered this question correctly.

- Package defines a namespace in... 2
- A package can contain another ... 1
- Java uses file system directories ... 10
- A package can be renamed with... stored 32 ✓



## 13. In object-oriented programming, Function overloading and operator overloading are examples of which of the following? (1 point)

98% of respondents (44 of 45) answered this question correctly.

- Polymorphism 44 ✓
- Abstraction 0
- Inheritance 1
- Encapsulation 0



## 14. In object-oriented programming, Dynamic Binding is another name for which of the following? (1 point)

93% of respondents (42 of 45) answered this question correctly.

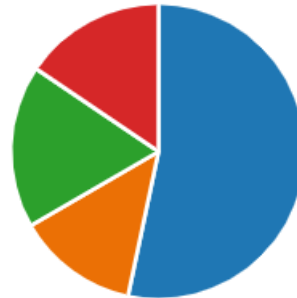
- polymorphism 42 ✓
- abstraction 0
- inheritance 2
- encapsulation 1



15. Object-Oriented Programming offers which of the following in a better way, compared to Structured Programming in order to provide more flexibility? (1 point)

18% of respondents (8 of 45) answered this question correctly.

|                                              |     |
|----------------------------------------------|-----|
| <input type="radio"/> Polymorphism           | 24  |
| <input type="radio"/> Abstraction            | 6   |
| <input checked="" type="radio"/> Inheritance | 8 ✓ |
| <input type="radio"/> Encapsulation          | 7   |



16. compareTo() returns (1 point)

93% of respondents (42 of 45) answered this question correctly.

|                                               |      |
|-----------------------------------------------|------|
| <input type="radio"/> true                    | 1    |
| <input type="radio"/> False                   | 1    |
| <input checked="" type="radio"/> An int value | 42 ✓ |
| <input type="radio"/> none                    | 1    |



17. In JDBC, which interface is used to establish a connection with a database? (1 point)

87% of respondents (39 of 45) answered this question correctly.

|                                             |      |
|---------------------------------------------|------|
| <input type="radio"/> Statement             | 0    |
| <input type="radio"/> ResultSet             | 0    |
| <input checked="" type="radio"/> Connection | 39 ✓ |
| <input type="radio"/> DriverManager         | 6    |



18. Which of the following statements is true about ODBC? (1 point)

93% of respondents (42 of 45) answered this question correctly.

- It is specific to Java applications. 0
- It stands for Object-Oriented Da... 2
- It provides a standard interface ... 42 ✓
- It is primarily used for connectin... 1



19. What is the primary purpose of database connectivity? (1 point)

91% of respondents (41 of 45) answered this question correctly.

- To create databases 2
- To query databases 0
- To manage databases 2
- To establish a connection betwe... 41 ✓



20. What is an exception in programming? (1 point)

96% of respondents (43 of 45) answered this question correctly.

- An error that cannot be handled 1
- A special condition that change... 43 ✓
- A syntax error in the code 1
- A warning issued by the compiler 0



21. Which keyword is used in Java to handle exceptions? (1 point)

71% of respondents (32 of 45) answered this question correctly.

- catch 9
- try 32 ✓
- except 0
- throw 4



22. What happens if an exception occurs within the try block and there is no corresponding catch block? (1 point)

91% of respondents (41 of 45) answered this question correctly.

- The program continues executio... 2
- The program terminates abruptly. 41 ✓
- The program throws another ex... 2
- The program prints a warning m... 0



23. What is the purpose of the finally block in exception handling? (1 point)

100% of respondents (45 of 45) answered this question correctly.

- To catch exceptions 0
- To handle exceptions 0
- To execute code regardless of w... 45 ✓
- To rethrow exceptions 0



24. Which of the following statements is true about thread synchronization? (1 point)

98% of respondents (44 of 45) answered this question correctly.

- It is used to increase thread ind... 1
- It ensures that only one thread c... 44 ✓
- It reduces thread safety. 0
- It is only necessary for single-th... 0





25. Which of the following is NOT a thread scheduling algorithm? (1 point)

80% of respondents (36 of 45) answered this question correctly.

|                                  |                                 |      |
|----------------------------------|---------------------------------|------|
| <input type="radio"/>            | Round-robin                     | 1    |
| <input type="radio"/>            | First-come, first-served (FCFS) | 2    |
| <input checked="" type="radio"/> | Shortest job next (SJN)         | 36 ✓ |
| <input type="radio"/>            | Priority-based scheduling       | 6    |



26. Which access modifier restricts access to only the same class in which the member is declared? (1 point)

96% of respondents (43 of 45) answered this question correctly.

|                                  |                           |      |
|----------------------------------|---------------------------|------|
| <input checked="" type="radio"/> | private                   | 43 ✓ |
| <input type="radio"/>            | protected                 | 1    |
| <input type="radio"/>            | public                    | 1    |
| <input type="radio"/>            | package-private (default) | 0    |



27. In Java, can a subclass access a private member of its superclass? (1 point)

91% of respondents (41 of 45) answered this question correctly.

|                                  |                                       |      |
|----------------------------------|---------------------------------------|------|
| <input type="radio"/>            | Yes, always                           | 2    |
| <input checked="" type="radio"/> | No, never                             | 41 ✓ |
| <input type="radio"/>            | Yes, if the subclass is in the sam... | 0    |
| <input type="radio"/>            | Yes, if the subclass is declared w... | 2    |



28. What is the role of a static variable in Java? (1 point)

89% of respondents (40 of 45) answered this question correctly.

- To store values that are specific ... 3
- To store values that are commo... 40 ✓
- To store values that are local to ... 1
- To store values that are constan... 1



29. Which of the following statements is true about local variables? (1 point)

87% of respondents (39 of 45) answered this question correctly.

- They have default values assign... 2
- They are accessible from any m... 3
- They must be explicitly initialize... 39 ✓
- They are initialized to null by de... 1



30. What is the scope of a local variable in Java? (1 point)

98% of respondents (44 of 45) answered this question correctly.

- The entire class 1
- The method or block in which it ... 44 ✓
- All methods within the same pa... 0
- All methods within the same class 0



31. What will be the output of the following JAVA program? (2 points)

```
class VAR
{
    public static void main(String args[])
    {
        int var1=5;
        int var2=6;
        if((var2=1)==var1)
            System.out.print(var2);
        else
            System.out.print(++var2);
    }
}
```

78% of respondents (35 of 45) answered this question correctly.

|                                  |                                |      |
|----------------------------------|--------------------------------|------|
| <input type="radio"/>            | 1                              | 4    |
| <input checked="" type="radio"/> | 2                              | 35 ✓ |
| <input type="radio"/>            | 3                              | 5    |
| <input type="radio"/>            | 4                              |      |
| <input type="radio"/>            | System.out.print(++var2);<br>} | 1    |



32. What will be the output of the following program? (2 points)

```
public class increment  
{  
  
public static void main(String args[])  
  
{  
  
int i=0;  
  
i=i++ + i;  
  
System.out.print("i="+i);  
  
}  
  
}
```

78% of respondents (35 of 45) answered this question correctly.

|                                                       |      |
|-------------------------------------------------------|------|
| <span style="color: blue;">●</span> i=0               | 7    |
| <span style="color: orange;">●</span> i=1             | 35 ✓ |
| <span style="color: green;">●</span> i=2              | 0    |
| <span style="color: red;">●</span> compile time error | 3    |



33. What is the output of the program? (2 points)

```
class strEQ
{
public static void main(String args[])
{
String s1="hello";
String s2=new String(s1);
System.out.println(s1==s2);
}
}
```

84% of respondents (38 of 45) answered this question correctly.

|                                  |                    |    |   |
|----------------------------------|--------------------|----|---|
| <input type="radio"/>            | True               | 7  |   |
| <input checked="" type="radio"/> | False              | 38 | ✓ |
| <input type="radio"/>            | Compile time error | 0  |   |
| <input type="radio"/>            | Run time error     | 0  |   |





34. What is the output of the program? (2 points)

```
abstract class A
```

```
{
```

```
int i;
```

```
abstract void display();
```

```
}
```

```
class B extends A
```

```
{
```

```
int j;
```

```
void display()
```

```
{
```

```
System.out.println(j);
```

```
}
```

```
}
```

```
public class Abstract_demo
```

```
{
```

```
public static void main(String args[])
```

```
{
```

```
B obj=new B();
```

```
obj.j=2;
```

```
obj.display();
```

```
}
```

```
}
```

89% of respondents (40 of 45) answered this question correctly.

|                                  |                   |      |
|----------------------------------|-------------------|------|
| <input type="radio"/>            | a) 1              | 1    |
| <input type="radio"/>            | b) compiler error | 2    |
| <input type="radio"/>            | c) run time error | 2    |
| <input checked="" type="radio"/> | d) 2              | 40 ✓ |



35. What is the output of the following program?

(2 points)

```
class Numbers{
    public static void main(String args[]){
        int a=20, b=10;
        if((a < b) && (b++ < 25)){
            System.out.println("This is any language logic");
        }
        System.out.println(b);
    }
}
```

91% of respondents (41 of 45) answered this question correctly.

|                                  |    |      |
|----------------------------------|----|------|
| <input type="radio"/>            | 12 | 0    |
| <input type="radio"/>            | 11 | 4    |
| <input checked="" type="radio"/> | 10 | 41 ✓ |
| <input type="radio"/>            | 13 | 0    |



36. What will be the output of following program? (2 points)

```
class Test {  
  
    static String s = "";  
  
    public static void main(String[] args) {  
  
        P:  
  
        for (int i = 2; i < 7; i++) {  
  
            if (i == 3)  
  
                continue;  
  
            if (i == 5)  
  
                break P;  
  
            s = s + i;    }  
  
        System.out.println(s);  
    } }  
}
```

69% of respondents (31 of 45) answered this question correctly.

|                                        |      |
|----------------------------------------|------|
| <input type="radio"/> a) 32            | 0    |
| <input type="radio"/> b) 23            | 12   |
| <input checked="" type="radio"/> c) 24 | 31 ✓ |
| <input type="radio"/> d) 42            | 2    |



37. Identify the output of the following program. String str = "Hellow"; (2 points)

```
System.out.println(str.indexOf('t'));
```

89% of respondents (40 of 45) answered this question correctly.

|                                           |      |
|-------------------------------------------|------|
| <span style="color: blue;">●</span> 0     | 0    |
| <span style="color: orange;">●</span> 1   | 5    |
| <span style="color: green;">●</span> true | 0    |
| <span style="color: red;">●</span> -1     | 40 ✓ |



38. Identify the output of the following program. (2 points)

```
Public class Test{
```

```
    Public static void main(String argos[]){
```

```
        String str1 = "one";
```

```
        String str2 = "two";
```

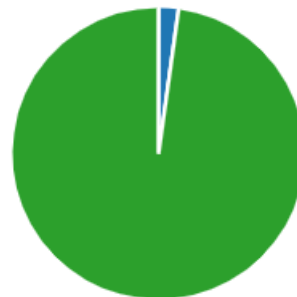
```
        System.out.println(str1.concat(str2));
```

```
    }
```

```
}
```

98% of respondents (44 of 45) answered this question correctly.

|                                             |      |
|---------------------------------------------|------|
| <span style="color: blue;">●</span> one     | 1    |
| <span style="color: orange;">●</span> two   | 0    |
| <span style="color: green;">●</span> onetwo | 44 ✓ |
| <span style="color: red;">●</span> twoone   | 0    |



39. What is the output of the following Java code snippet? (2 points)

```
public class MyThread extends Thread {  
  
    public void run() {  
  
        System.out.println("Thread is running.");  
  
    }  
  
    public static void main(String[] args) {  
  
        MyThread thread = new MyThread();  
  
        thread.start();  
  
        System.out.println("Main thread is running.");  
  
    }  
  
}
```

62% of respondents (28 of 45) answered this question correctly.

- Main thread is running. Thread i... 28 ✓
- Thread is running. Main thread i... 14
- It's not possible to predict the o... 1
- Thread is running. 2





40. What will be the output of the following Java code? (2 points)

```
class Test {  
  
    int num;  
  
    Test() {  
  
        num = 0;  
  
    }  
  
    Test(int num) {  
  
        this.num = num;  
  
    }  
  
    public static void main(String[] args) {  
  
        Test obj1 = new Test();  
  
        Test obj2 = new Test(10);  
  
        System.out.println(obj1.num + " " + obj2.num);  
  
    }  
  
}
```

96% of respondents (43 of 45) answered this question correctly.

|       |      |
|-------|------|
| 0 0   | 1    |
| 0 10  | 43 ✓ |
| 10 0  | 0    |
| 10 10 | 1    |



41. What will be the output of the following Java code? (2 points)

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str1 = "hello";  
  
        String str2 = "hello";  
  
        System.out.println(str1 == str2);  
  
    }  
  
}
```

96% of respondents (43 of 45) answered this question correctly.

|                                       |    |   |
|---------------------------------------|----|---|
| <input checked="" type="radio"/> true | 43 | ✓ |
| <input type="radio"/> false           | 1  |   |
| <input type="radio"/> Compiler error  | 1  |   |
| <input type="radio"/> Runtime error   | 0  |   |



42. What will be the output of the following Java code? (2 points)

```
public class Main {  
  
    public static void main(String[] args) {  
  
        String str = "hello";  
  
        System.out.println(str.substring(1, 3));  
  
    }  
  
}
```

93% of respondents (42 of 45) answered this question correctly.





|                                  |                |      |
|----------------------------------|----------------|------|
| <input type="radio"/>            | hel            | 0    |
| <input checked="" type="radio"/> | ell            | 42 ✓ |
| <input type="radio"/>            | ello           | 0    |
| <input type="radio"/>            | Compiler error | 3    |



43. What will be the output of the following Java code? (2 points)

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr);  
  
    }  
  
}
```

91% of respondents (41 of 45) answered this question correctly.

|                                                                                                   |    |   |
|---------------------------------------------------------------------------------------------------|----|---|
|  [!@3c679bde     | 41 | ✓ |
|  0               | 2  |   |
|  null            | 1  |   |
|  Compiler error | 1  |   |



44. What will be the output of the following Java code? (2 points)

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr = new int[5];  
  
        System.out.println(arr[6]);  
  
    }  
  
}
```

100% of respondents (45 of 45) answered this question correctly.

|                                  |                                |      |
|----------------------------------|--------------------------------|------|
| <input type="radio"/>            | 0                              | 0    |
| <input type="radio"/>            | 6                              | 0    |
| <input checked="" type="radio"/> | ArrayIndexOutOfBoundsException | 45 ✓ |
| <input type="radio"/>            | Compiler error                 | 0    |





45. What will be the output of the following Java code? (2 points)

```
public class Main {  
  
    public static void main(String[] args) {  
  
        int[] arr1 = {1, 2, 3};  
  
        int[] arr2 = arr1.clone();  
  
        arr1[0] = 5;  
  
        System.out.println(arr2[0]);  
  
    }  
  
}
```

84% of respondents (38 of 45) answered this question correctly.

|                                    |      |
|------------------------------------|------|
| <input checked="" type="radio"/> 1 | 38 ✓ |
| <input type="radio"/> 2            | 3    |
| <input type="radio"/> 3            | 0    |
| <input type="radio"/> 5            | 4    |





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**Department of Information Technology**

**13. Mark Statement**

**and**

**Assessment Rubrics**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

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## DEPARTMENT OF INFORMATION TECHNOLOGY

### Value Added Course - Mark Statement

#### Web Application - JAVA Programming - [12.02.2024 - 17.02.2024]

| S.No | Rollno   | Team Members           | MCQ Marks (60 Marks) | Project Marks (40 Marks) | Total Marks (100 Marks) |
|------|----------|------------------------|----------------------|--------------------------|-------------------------|
| 1    | 22UIT009 | AKSHAYAA.M             | 55                   | 38                       | 93                      |
| 2    | 22UIT011 | SANJAY PRABHU.V. J     | 53                   | 37                       | 90                      |
| 3    | 22UIT015 | KALIMUTHU.T            | 53                   | 37                       | 90                      |
| 4    | 22UIT017 | SHERIN.M               | 53                   | 31                       | 84                      |
| 5    | 22UIT018 | SELVA KUMAR.R          | 53                   | 37                       | 90                      |
| 6    | 22UIT023 | DHARSHINI.S            | 58                   | 38                       | 96                      |
| 7    | 22UIT028 | ASHVIN KUMAR.M         | 54                   | 32                       | 86                      |
| 8    | 22UIT029 | JAYA SURYA.S           | 51                   | 37                       | 88                      |
| 9    | 22UIT031 | HARINI.U               | 49                   | 31                       | 80                      |
| 10   | 22UIT037 | RICKY JOEL.J           | 44                   | 36                       | 80                      |
| 11   | 22UIT039 | AKSHAYA BALA.A         | 57                   | 31                       | 88                      |
| 12   | 22UIT043 | PRAVEEN.M              | 56                   | 38                       | 94                      |
| 13   | 22UIT045 | DEEPIKA.M              | 58                   | 38                       | 96                      |
| 14   | 22UIT046 | KASINATHAN.T           | 57                   | 30                       | 87                      |
| 15   | 22UIT047 | ISAAC PRADEEP RAJ.K. L | 57                   | 37                       | 94                      |
| 16   | 22UIT051 | JANAVARSHINI.G         | 50                   | 39                       | 89                      |
| 17   | 22UIT054 | AFRIN THAYUFA.S        | 50                   | 39                       | 89                      |
| 18   | 22UIT058 | MANIKANDAN.M           | 53                   | 32                       | 85                      |
| 19   | 22UIT059 | SANTHIYA.K             | 48                   | 37                       | 85                      |
| 20   | 22UIT060 | POOJA.R                | 48                   | 38                       | 86                      |

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Annanagar, Madurai - 625 020

|    |          |                            |    |    |    |
|----|----------|----------------------------|----|----|----|
| 21 | 22UIT064 | SANTHOSH<br>THANGASEELAN.S | 52 | 38 | 90 |
| 22 | 22UIT068 | ARJUN KANTH.K              | 53 | 37 | 90 |
| 23 | 22UIT069 | PRIYAJAYAM.K               | 46 | 38 | 84 |
| 24 | 22UIT073 | HARIHARAN.A                | 42 | 38 | 80 |
| 25 | 22UIT076 | MADHUBALA.K                | 50 | 38 | 88 |
| 26 | 22UIT078 | SUDHAA SHREE.K             | 55 | 38 | 93 |
| 27 | 22UIT080 | HARISH RAGHAVENDRA.S       | 46 | 36 | 82 |
| 28 | 22UIT081 | NAVEENKUMAR.S              | 52 | 30 | 82 |
| 29 | 22UIT083 | ABINAYA SELVI.S            | 49 | 38 | 87 |
| 30 | 22UIT084 | SESHAN.N                   | 51 | 32 | 83 |
| 31 | 22UIT088 | ARUN.P                     | 54 | 32 | 86 |
| 32 | 22UIT092 | ANANTHA GANESH.R           | 57 | 30 | 87 |
| 33 | 22UIT094 | MONIGA.P                   | 46 | 37 | 83 |
| 34 | 22UIT095 | AGUSTIN JOSHUA.Y           | 50 | 30 | 80 |
| 35 | 22UIT096 | HEMADHARSHINI.R            | 52 | 39 | 91 |
| 36 | 22UIT098 | GAYATHRI.J                 | 56 | 38 | 94 |
| 37 | 22UIT100 | SURIYAJAYASUBISRI.S        | 52 | 38 | 90 |
| 38 | 22UIT102 | SIVA SANKARA PANDI.S       | 51 | 32 | 83 |
| 39 | 22UIT103 | SERREEN FATHIMA GANI.M     | 48 | 37 | 85 |
| 40 | 22UIT104 | GNANA JERSHA.J             | 42 | 38 | 80 |
| 41 | 22UIT105 | ASLAM ASHIK.K              | 60 | 32 | 92 |
| 42 | 22UIT109 | MOTTAYA SAMY.K             | 55 | 37 | 92 |
| 43 | 22UIT114 | KAVYA.R                    | 59 | 38 | 97 |
| 44 | 22UIT115 | DEEPASRI.R                 | 50 | 39 | 89 |
| 45 | 22UIT118 | NAGARAJAN.P                | 51 | 36 | 87 |



*S. Gan*  
VAC Coordinator

[Mrs. S. GAYATHRI]

*[Signature]*  
HOD/IT

[Dr. E. NARAYANAN]

*[Signature]*  
Dean Academic Course

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**Department of Information Technology**

**14. Grade Sheet**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

**Not Included**





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**Department of Information Technology**

**15. Feedback Form**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

# Day 1 Feedback - VAC on "Web Application - JAVA Programming"

Resource Person:

Mr. Jeejo Vetharaj,

Silicon Software Services, Coimbatore.

Date: 12.02.2024

\* Required

\* This form will record your name, please fill your name.



1. The objective of the day 1 value added course was met. \*

Strongly Agree

Agree

Neutral

Disagree

Strongly disagree

2. The program sequence was well planned. \*

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

3. The lectures were clear and easy to understand. \*

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

4. The instructors encouraged the interaction. \*

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

5. The information presented in this VAC was highly beneficial. \*

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

6. Well organized VAC course. \*

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

7. Overall Rating \*



8. Any comments? \*

---

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.





# Day 1 Feedback - VAC on "Web Application - JAVA Programming"

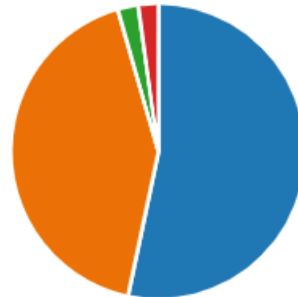
45 Responses

01:18 Average time to complete

Closed Status

1. The objective of the day 1 value added course was met.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 24 |
| ● Agree             | 19 |
| ● Neutral           | 1  |
| ● Disagree          | 1  |
| ● Strongly disagree | 0  |



2. The program sequence was well planned.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 23 |
| ● Agree             | 19 |
| ● Neutral           | 2  |
| ● Disagree          | 1  |
| ● Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 23 |
| ● Agree             | 18 |
| ● Neutral           | 4  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



4. The instructors encouraged the interaction.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 23 |
| ● Agree             | 19 |
| ● Neutral           | 2  |
| ● Disagree          | 0  |
| ● Strongly disagree | 1  |



5. The information presented in this VAC was highly beneficial.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 22 |
| ● Agree             | 20 |
| ● Neutral           | 3  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



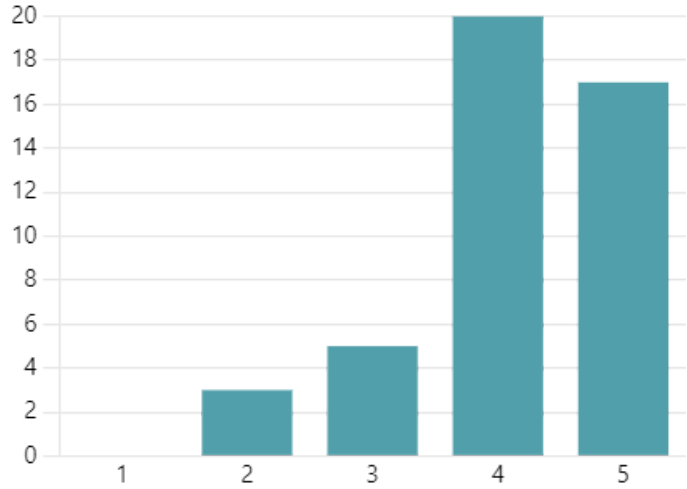
6. Well organized VAC course.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 23 |
| ● Agree             | 19 |
| ● Neutral           | 2  |
| ● Disagree          | 1  |
| ● Strongly disagree | 0  |



### 7. Overall Rating

**4.13**  
Average Rating



### 8. Any comments?

**45**  
Responses

#### Latest Responses

- "excellent"
- "good"
- "good"

23 respondents (51%) answered **good** for this question.

source person fine Interesting session helpful session  
Concepts Session is Good  
helpfull for our future course **good** session cours  
noo good and interesting things excellent teachi  
course helpfull

# Day 2 Feedback - VAC on "Web Application - JAVA Programming"

45 Responses

00:41 Average time to complete

Active Status

1. The objective of the day 2 value added course was met.

|                   |    |
|-------------------|----|
| Strongly Agree    | 23 |
| Agree             | 20 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |



2. The program sequence was well planned.

|                   |    |
|-------------------|----|
| Strongly Agree    | 24 |
| Agree             | 19 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                   |    |
|-------------------|----|
| Strongly Agree    | 21 |
| Agree             | 21 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



4. The instructors encouraged the interaction.

|                   |    |
|-------------------|----|
| Strongly Agree    | 19 |
| Agree             | 21 |
| Neutral           | 4  |
| Disagree          | 1  |
| Strongly disagree | 0  |



5. The information presented in this VAC was highly beneficial.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 23 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 0  |



6. Well organized VAC course.

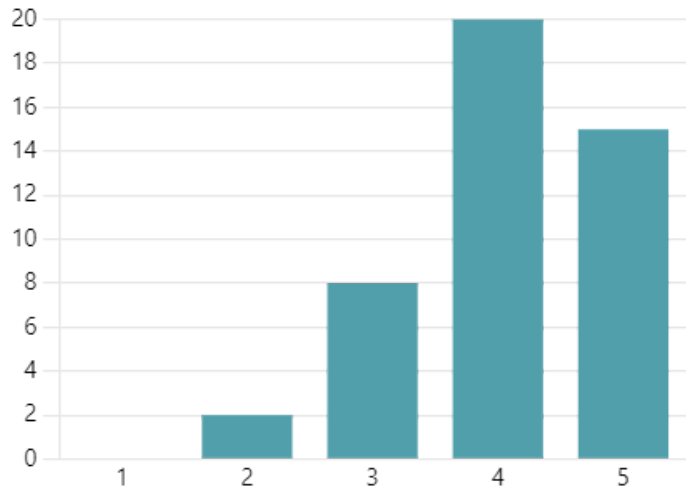
|                   |    |
|-------------------|----|
| Strongly Agree    | 22 |
| Agree             | 19 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 0  |





### 7. Overall Rating

**4.07**  
Average Rating



### 8. Any comments?

**45**  
Responses

#### Latest Responses

- "Not bad"
- "ok"
- "nothing"

21 respondents (47%) answered **good** for this question.



# Day 3 Feedback - VAC on "Web Application - JAVA Programming"

43 Responses

00:34 Average time to complete

Active Status

1. The objective of the day 3 value added course was met.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 23 |
| ● Agree             | 18 |
| ● Neutral           | 2  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



2. The program sequence was well planned.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 20 |
| ● Agree             | 22 |
| ● Neutral           | 1  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                   |    |
|-------------------|----|
| Strongly Agree    | 20 |
| Agree             | 19 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 0  |



4. The instructors encouraged the interaction.

|                   |    |
|-------------------|----|
| Strongly Agree    | 20 |
| Agree             | 20 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



5. The information presented in this VAC was highly beneficial.

|                   |    |
|-------------------|----|
| Strongly Agree    | 21 |
| Agree             | 21 |
| Neutral           | 1  |
| Disagree          | 0  |
| Strongly disagree | 0  |



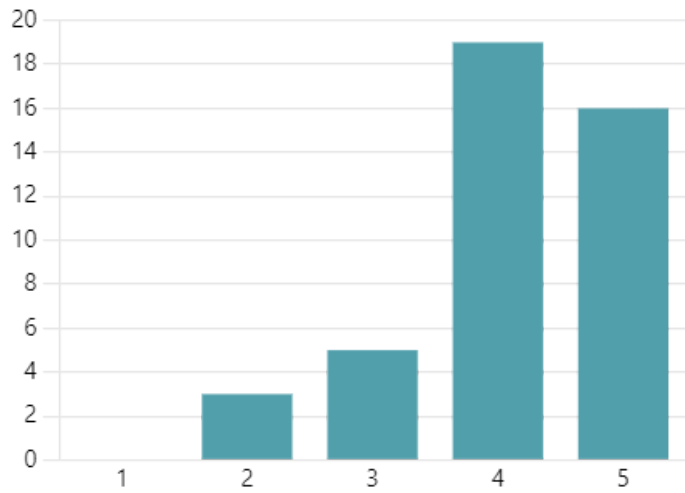
### 6. Well organized VAC course.

|                   |    |
|-------------------|----|
| Strongly Agree    | 22 |
| Agree             | 19 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |



### 7. Overall Rating

4.12  
Average Rating



### 8. Any comments?

42  
Responses

#### Latest Responses

- "NO"
- "Good "
- "Nothing "

# Day 4 Feedback - VAC on "Web Application - JAVA Programming"

45 Responses

00:23 Average time to complete

Active Status

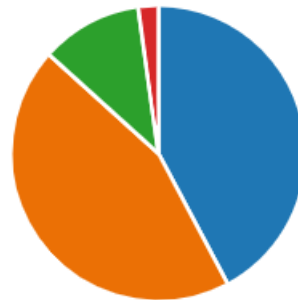
1. The objective of the day 4 value added course was met.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 19 |
| ● Agree             | 24 |
| ● Neutral           | 2  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



2. The program sequence was well planned.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 19 |
| ● Agree             | 20 |
| ● Neutral           | 5  |
| ● Disagree          | 1  |
| ● Strongly disagree | 0  |





### 3. The lectures were clear and easy to understand.

|                   |    |
|-------------------|----|
| Strongly Agree    | 19 |
| Agree             | 23 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



### 4. The instructors encouraged the interaction.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 25 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |



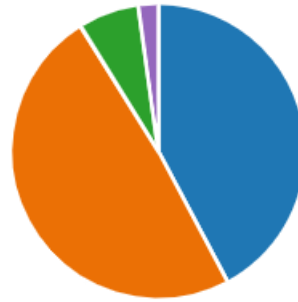
### 5. The information presented in this VAC was highly beneficial.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 24 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



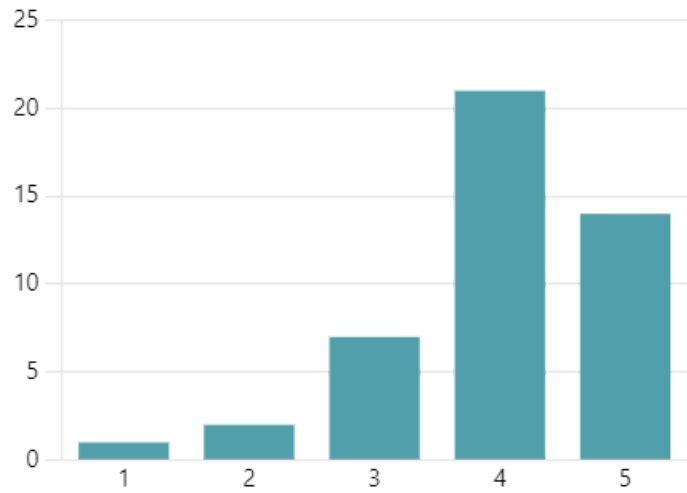
### 6. Well organized VAC course.

|                   |    |
|-------------------|----|
| Strongly Agree    | 19 |
| Agree             | 22 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 1  |



### 7. Overall Rating

**4.00**  
Average Rating



### 8. Any comments?

**44**  
Responses

#### Latest Responses

"good"  
"ok"  
"ausome"

# Day 5 Feedback - VAC on "Web Application - JAVA Programming"

45 Responses

00:33 Average time to complete

Active Status

1. The objective of the day 5 value added course was met.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 25 |
| ● Agree             | 20 |
| ● Neutral           | 0  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



2. The program sequence was well planned.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 20 |
| ● Agree             | 24 |
| ● Neutral           | 1  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 21 |
| ● Agree             | 20 |
| ● Neutral           | 3  |
| ● Disagree          | 0  |
| ● Strongly disagree | 1  |



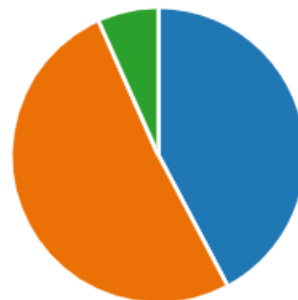
4. The instructors encouraged the interaction.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 20 |
| ● Agree             | 23 |
| ● Neutral           | 2  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



5. The information presented in this VAC was highly beneficial.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 19 |
| ● Agree             | 23 |
| ● Neutral           | 3  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



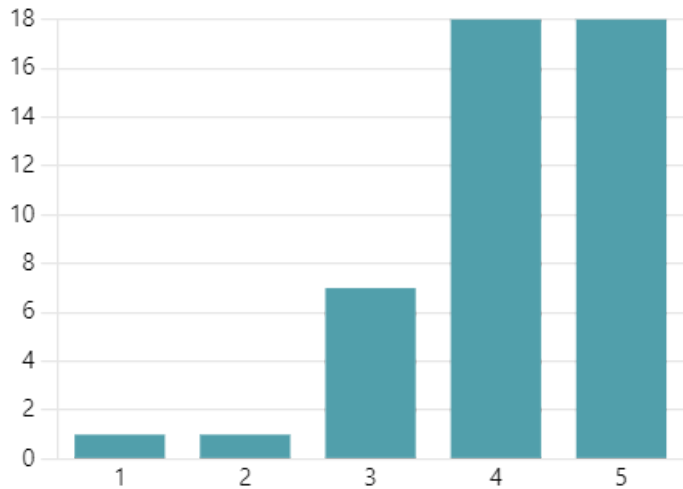
6. Well organized VAC course.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 19 |
| ● Agree             | 24 |
| ● Neutral           | 2  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



### 7. Overall Rating

**4.13**  
Average Rating



### 8. Any comments?

**44**  
Responses

#### Latest Responses

" "  
"Good"  
"Good"

[Update](#)

19 respondents (42%) answered **Good** for this question.





# Day 6 Feedback - VAC on "Web Application - JAVA Programming"

41 Responses

00:26 Average time to complete

Active Status

1. The objective of the day 6 value added course was met.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 21 |
| ● Agree             | 19 |
| ● Neutral           | 1  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



2. The program sequence was well planned.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 19 |
| ● Agree             | 19 |
| ● Neutral           | 2  |
| ● Disagree          | 1  |
| ● Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                                                         |    |
|---------------------------------------------------------|----|
| <span style="color: blue;">●</span> Strongly Agree      | 18 |
| <span style="color: orange;">●</span> Agree             | 22 |
| <span style="color: green;">●</span> Neutral            | 1  |
| <span style="color: red;">●</span> Disagree             | 0  |
| <span style="color: purple;">●</span> Strongly disagree | 0  |



4. The instructors encouraged the interaction.

|                                                         |    |
|---------------------------------------------------------|----|
| <span style="color: blue;">●</span> Strongly Agree      | 19 |
| <span style="color: orange;">●</span> Agree             | 20 |
| <span style="color: green;">●</span> Neutral            | 2  |
| <span style="color: red;">●</span> Disagree             | 0  |
| <span style="color: purple;">●</span> Strongly disagree | 0  |



5. The information presented in this VAC was highly beneficial.

|                                                         |    |
|---------------------------------------------------------|----|
| <span style="color: blue;">●</span> Strongly Agree      | 19 |
| <span style="color: orange;">●</span> Agree             | 21 |
| <span style="color: green;">●</span> Neutral            | 0  |
| <span style="color: red;">●</span> Disagree             | 0  |
| <span style="color: purple;">●</span> Strongly disagree | 1  |



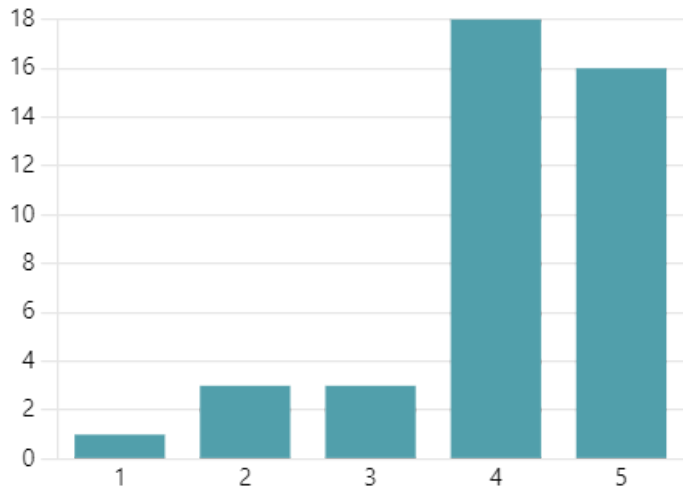
6. Well organized VAC course.

|                                                         |    |
|---------------------------------------------------------|----|
| <span style="color: blue;">●</span> Strongly Agree      | 17 |
| <span style="color: orange;">●</span> Agree             | 21 |
| <span style="color: green;">●</span> Neutral            | 2  |
| <span style="color: red;">●</span> Disagree             | 1  |
| <span style="color: purple;">●</span> Strongly disagree | 0  |



### 7. Overall Rating

**4.10**  
Average Rating



### 8. Any comments?

**40**  
Responses

#### Latest Responses

"Good "  
."  
"gd"

[Update](#)

16 respondents (37%) answered **Good** for this question.

Ausome  
lot  
session is very useful  
Thanks For teachers  
teachers and management  
VAC  
program  
**Good**  
Nothi6  
new things  
thank sir  
Good explan  
concept  
Su  
fa



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**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**

**Department of Information Technology**

**17. Programme Summary / Report**

**Value Added Course**

**on**

**Web Application - JAVA Programming**



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**VALUE-ADDED COURSE**  
**REPORT**  
**"Web Application - JAVA Programming"**

**Day 1: 12.02.2024**

**Morning Session:**

- Students learned the fundamentals of JAVA through interactive tutorials and guided exercises, students grasped essential concepts such as variables, data types and control flow structures.
- By actively engaging with the material and seeking clarification on challenging topics, they ensured a solid foundation in JAVA programming.

**Afternoon Session:**

- The session continued with the exploration of JAVA by tackling more advanced topics such as functions, modules, and file handling.
- Through hands-on coding challenges and collaborative problem-solving, the students were able to understand JAVA's capabilities and best practices.

**Day 2: 13.02.2024**

**Morning Session:**

- The students understood the syntax of classes, variables, and methods.
- They attentively absorbed lectures on the usage of object creation, as well as the overview of the java language.
- The students gained an understanding of OOPs concepts through discussions with the instructor.

**Afternoon Session:**

- The session continued by working with Object-oriented programming concepts.
- The students gained knowledge of the concepts of inheritance in the application and its rules to follow with the help of practical session.



**Day 3: 14.02.2024**

**Morning Session:**

- The students understood the rules of polymorphism and the difference between method overriding and overloading concepts and their real applications.
- The students gained knowledge in encapsulation, abstraction, and interface in application development and the need to understand the rules.

**Afternoon Session:**

- The session continued with hands-on projects.
- By experimenting with different real-time applications, the students were able to understand the application concepts and refine their projects with the help of the instructor.
- The students gained knowledge of applying OOPs concepts in their projects.

**Day 4: 15.02.2024**

**Morning Session:**

- The students gained knowledge of constructors and how they are much more important in the industry.
- Students obtained knowledge of JDBC (Java Database Connectivity).
- They learned the procedure of JDBC connection and its operations by using MYSQL database.
- They learned the concept of strings and array lists. By using these concepts, students were able to connect the database for their projects.

**Afternoon Session:**

- The students explored their projects and refined them to make them flexible and solve many hands-on problems in the real world.
- They gained confidence in working with backend java applications. They eagerly learned package creation and its usage in projects.

**Day 5: 16.02.2024**

**Morning Session:**

- The students understood the Math class and its usage in real-time applications with the help of simple example programs.
- They understood the exploration APIs and their importance for industry usage.

- The students clearly understood the String, String Buffer, and StringBuilder classes and their usages in building applications.

#### Afternoon Session:

- The students gathered knowledge of Exception Handling and how it must be used in application development.
- The students learned the creation of files and usage of those files with built-in classes through practical sessions.
- The students presented their projects and gained extra knowledge about the projects, clearing their doubts in the point of web application.
- The instructor gave more real-time examples.

**Day 6: 17.02.2024**

#### Morning Session:

- The students gained knowledge in wrapper classes, much useful to understanding the built-in data structures of Java.
- The course instructor revised all the concepts.

#### Afternoon Session:

- Students presented their project in front of the course instructor and submitted the project report.
- The past six days have been filled with invaluable learning experiences and opportunities for growth.
- The course instructor's guidance and support have been instrumental in deepening the students' understanding of Java programming, OOPs concept, and their applications in real-world scenarios.
- Although there were many questions, he provided clear and thorough explanations, enriching the students' learning experience.

  
VAC InCharge

  
VAC Coordinator

  
HOD/IT



*S. Gau*  
VAC Co-ordinator

[MRS. S. GAYATHRI]

*✓*  
17/2/24.  
HoD / IT

[DR. E. VAKAI MALAR]





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**18. Student Oral Feedback (Recorded Video)**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

**Available in One Drive Folder**



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**19. VAC – Short Video**

**Value Added Course**

**on**

**Web Application - JAVA Programming**

**Available in One Drive Folder**