



(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

“RECONNOITRE C PROGRAMMING”

12.02.2024 – 17.02.2024

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

[https://kcetvnrorg.sharepoint.com/:f/s/itmsteam2/ErdOLV\\_XvXxGnxmXibhNxVUBnM8CSF66rjGDhorWoy72Bw?c=tOfdXW](https://kcetvnrorg.sharepoint.com/:f/s/itmsteam2/ErdOLV_XvXxGnxmXibhNxVUBnM8CSF66rjGDhorWoy72Bw?c=tOfdXW)

  
VAC Coordinator

[G.H.RAM BANES]  
AP-IT

  
HOD/IT

Verified  
1/5/2024  
S. Athilakshmi  
AP-CSE  
PAC In Charge

**Value Added Course Details**

1. Academic Year : 2023 -2024
2. Regulation : R2021
3. Department Name : Information Technology
4. Name of the Value Added Course : "Reconnoitre C Programming"
5. Number of Credits : 2
6. Category : Theory / Lab / Hands-on / Skill Based
7. Detail of the Joint Organization : WITH YOU
8. Resource Person Details : Mr.Sridhar Arumugasamy,  
4<sup>th</sup> floor, Mayflower Valencia,  
Nava India Road, Coimbatore
9. Three Member Committee details : 1) Dr.E.Vakaimalar, ASP & HoD/IT.  
2) Dr.R.Arthy, AP/IT  
3) Mr.D.Vendhan, AP/IT
10. VAC Coordinator Details : Mr.G.H.Ram Ganesh, AP/IT
11. Duration : 45 Hours
12. Period : 12.02.2024 – 17.02.2024
13. Venue : NEW IT Lab( Linux Block)

  
VAC Coordinator

[G.H. RAM GANESH, AP-IT]

  
HoD/IT

  
Dean Academic Course



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Department of Information Technology

Checklist for File Contents

Value Added Course

“RECCONNOITRE C 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	yes
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

# KAMARAJ

## COLLEGE OF ENGINEERING & TECHNOLOGY



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

SL No. 57

IT

Date 03/09/24

Approval for value added course - req.

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

1. "Reconnoitre C" - [With you - Coimbatore]

Batch I - 40 students = ~~40 students~~

$40 \times 2,000 = 80,000/-$

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

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

  
Signature of Faculty 03/09/24

  
HOD 03/09/24

  
PRINCIPAL 04/09/24

### OFFICE USE

1) Budget allotted

: Value added Course

2) Amount committed / Spent sofar

:

3) Balance available

:

OM

Treasurer

Secretary

**Invoice for Kamaraj College of Engineering & Technology**  
S.P.G.Chidambara Nadar, C.Nagammal Campus, Vellakulam, Tamil Nadu 625701

Date : 4<sup>th</sup> March 2024

Invoice # : 06/20240304/IT/KCET

Serial #	Description	Start Date	End Date	Audience Count	Cost Per Student
1	Value added course for IT department in 'C' under the name Reconnoitre in 'C' Programming	12/2/2024	17/2/2024	40	INR – 2000 per student

Duration of Training: 6 Days

Cost of Total Training : INR 80000/- Eighty Thousands Only

Payable to:

Account number: **0385053000003976**

Account Name : **Sridhar Arumugasamy**

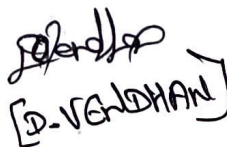
IFSC : **SIBL0000385**

Bank : South Indian Bank, Sungam, Trichy Road, Coimbatore

PAN Number : **AODPS5737H**



Sridhar Arumugasamy  
Proprietor

  
[D. VENKHAN]

  
15/3/24

# Day – 1

## Introduction to 'C'

- Parts of C program
  - Pre-processor
  - Header file
  - main() – Single point of Entry
  - Block of Code { }
- Literal vs constants vs variables
- Data types
- Structured Programming Language
- Constructs - flow
  - If.
  - If.. else
  - Combining the if..else
    - Cascade
    - Nest
- Operators
  - Arithmetic - +, - , \*, /, %
  - Relational - <, >, <=, >=, ==, !=
  - Increment , decrement
  - Logical - &&, ||, !
  - Assignment operators - =, += , -= , \*=, /=, &=
  - sizeof() – compile time operator (Differentiator)
- Simple programs
  - printf() – print formatted
  - Syntax of printf()
  - Even or Odd
  - Negative / positive / neutral
  - Divisibility of numbers
    - Divisibility of 2
      - Use modulo operator
      - Use bitwise operator
    - Divisibility of 3, 4, 5, 6 ... 11(Differentiator)
    -

## Day – 2 & 3

- Switch
- Loop constructs
  - Entry check , exit check
  - While , do..while , for(self documented while)
  - For syntax - differentiator
  - Infinite loop
- Lvalue / Rvalue (Differentiator)
- Lvalue required error
- Programs
  - month print / nod in month
  - multiplication table
  - no of digits, sum of digits
  - Reverse a number
  - Factors
    - Print all factors
    - Sum of Factors
    - Number of Factors
    - Perfect number
    - Amicable numbers
    - Optimization (Differentiator)
  - Prime numbers
  - Factorial
  - Armstrong
  - Strong numbers
  - Generation of all of them
  - Optimization

## Day – 4

- Functions
  - What is function?
  - Naming convention
  - Syntax
  - Parts of function
  - Return type and parameter
  - Actual / formal parameters
  - Call by value / reference
- Convert all the programs into functions
- Memory Map of an executable file (Differentiator)
- Storage class
  - Auto
  - Static
  - Extern
  - Register

## Day – 5

- Array
  - [] operator
  - Accessing method
  - Initialization
  - Traversal
- Problems in array
  - 5 Easy Problems
  - 3 Average level problems
  - 1 Difficult level Problem
- Pointers
  - Definition
  - Advantage of pointer
    - Speed
    - Size
    - Call by reference
    - Dynamic memory allocation
    - Address as a Data Type



## Day – 6

- Pointers vs array
- Array as a pointer and Pointer as an array
- Variable Length Array (Differentiator)
- String functions
- Pointer arithmetic

### Problems in Arrays – Strings

- strlen(),strupr(),strlwr(),strcpy(),strcmp(),strcat(),strrev(),strchr(),strstr()
- Remove vowels
- Remove Duplicate Characters

### ***Additional Problems Covered***


- Backtracking
- 3 Problems

### ***Financials***

***INR 2000/- per student***

With Regards

**Sridhar Arumugasamy**

  
VAC LODDOLINER  
[S. ARUMUGASAMY]  
AP-17

  
HSD



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## Department of Information Technology

### 5. Three Member Committee Details

#### Value Added Course

on

#### “RECONNOITRE C 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: 28.01.2024**

A meeting regarding the execution of value added course on "RECONNOITRE C PROGRAMMING" from 12.02.2024 to 17.02.2024 was organized on 28.01.2024 among the three member committee of the value added course.

**Venue: HoD Cabin**

**Time: 2.30 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 - 40
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	IT - New IT Lab (Linux Block)
11	Attendance	Discussion on 100% attendance and it is decided that attendance entry in ERP by VAC Coordinator

VAC Coordinator

UG Coordinator

HoD / IT

[S.H. RAM SAMESH]  
AP-27

[DR. R. ARTHY]  
AP-27

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Reconnoitre C Programming”  
(12.02.2024 to 17.02.2024)**

**GEO-TAGGED PHOTOS  
( Day 1 : 12.02.2024)**

**Department : Information Technology**

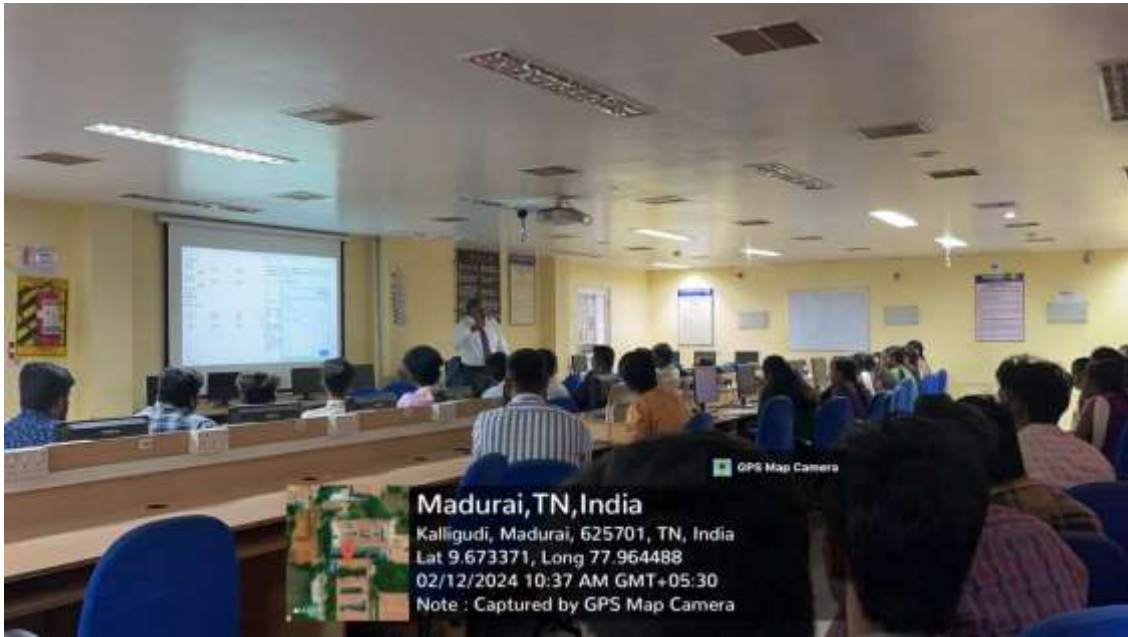
**Regulation : R 2021**


**Year : II-IT A & B**

**Semester : IV**

**Date : 12.02.2024**





  
VAC COORDINATOR  
[B. B. RAM BANESH]  
AP-IT

  
HDD

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Reconnoitre C Programming”  
(12.02.2024 to 17.02.2024)**

**GEO-TAGGED PHOTOS  
( Day 2 : 13.02.2024)**

**Department : Information Technology**

**Regulation : R 2021**

**Year : II-IT A & B**

**Semester : IV**

**Date : 13.02.2024**





*[Handwritten signature]*  
VAC WOODHIMATOR  
[B-27 RAM BANEST]  
AP-77

*[Red checkmark]*  
HDD

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Reconnoitre C Programming”  
(12.02.2024 to 17.02.2024)**

**GEO-TAGGED PHOTOS  
( Day 3 : 14.02.2024)**

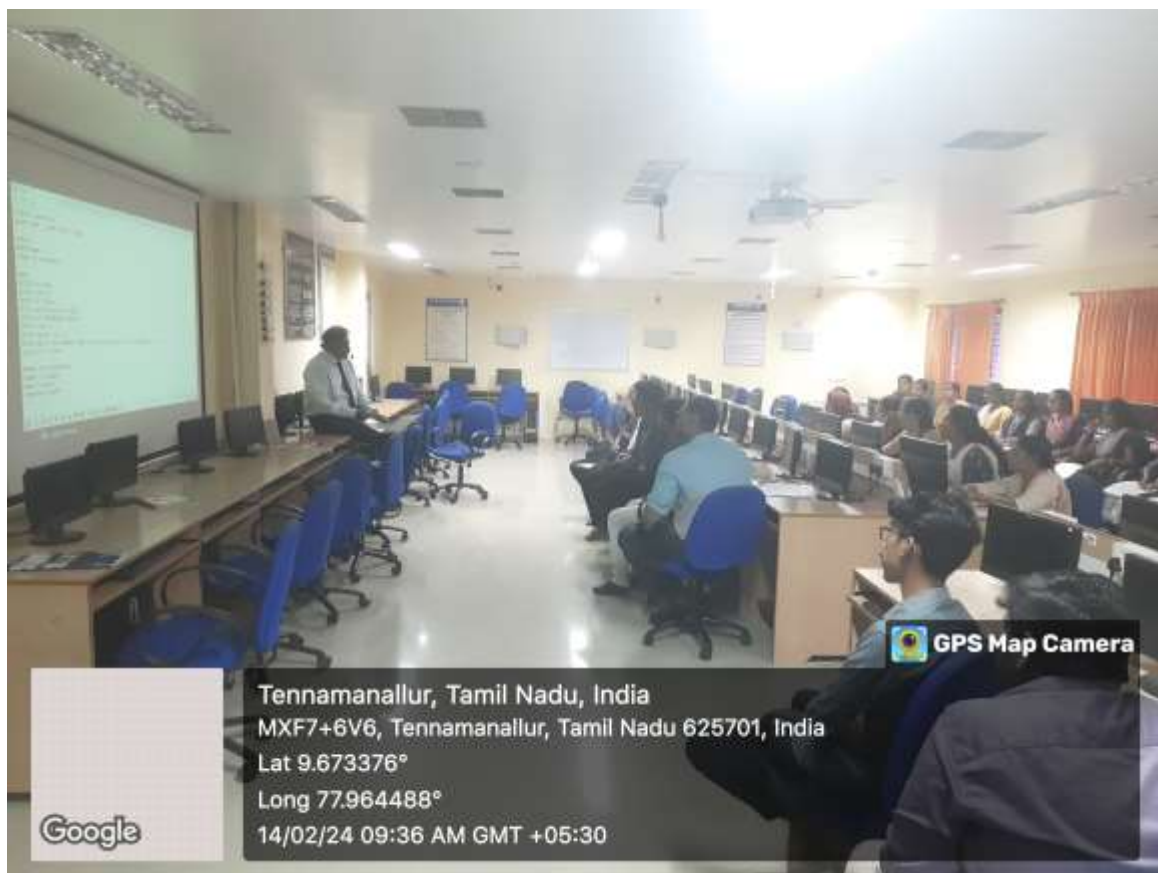
**Department : Information Technology**

**Regulation : R 2021**

**Year : II-IT A & B**

**Semester : IV**

**Date : 14.02.2024**








Tennamanallur, Tamil Nadu, India  
MXF7+6V6, Tennamanallur, Tamil Nadu 625701, India  
Lat 9.673377°  
Long 77.96449°  
14/02/24 09:36 AM GMT +05:30

GPS Map Camera

  
VAC COORDINATOR  
[B. RAM GANESH]  
AP-IT

  
HDD

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Reconnoitre C Programming”  
(12.02.2024 to 17.02.2024)**

**GEO-TAGGED PHOTOS  
( Day 4 : 15.02.2024)**

**Department : Information Technology**

**Regulation : R 2021**


**Year : II-IT A & B**

**Semester : IV**

**Date : 15.02.2024**





  
VAC COORDINATOR  
[B. B. RAM BARNALI]  
AP-IT

  
HDD

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Reconnoitre C Programming”  
(12.02.2024 to 17.02.2024)**

**GEO-TAGGED PHOTOS  
( Day 5 : 16.02.2024)**

**Department : Information Technology**

**Regulation : R 2021**


**Year : II-IT A & B**

**Semester : IV**

**Date : 16.02.2024**





  
VAC COORDINATOR  
[B. RAM GANESH]  
AP-IT

  
HDD

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Reconnoitre C Programming”  
(12.02.2024 to 17.02.2024)**

**GEO-TAGGED PHOTOS  
( Day 6 : 17.02.2024)**

**Department : Information Technology**

**Regulation : R 2021**


**Year : II-IT A & B**

**Semester : IV**

**Date : 17.02.2024**





  
VAC COORDINATOR  
[B. RAM BANESH]  
AP-IT

  
HDD

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mail@kamarajengg.edu.in, (+91) 4549 278791, (+91) 4549 278171, +91 9443544988  
**AUTONOMOUS**

# Certificate of Completion

This is to certify that ..... **KARTHIKEYAN. J** ..... of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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: ..... **82** .....

*E. Vakaimalar*  
**Dr.E.Vakaimalar**  
HoD/IT

*Dr.S.Senthil*  
**Dr.S.Senthil**  
PRINCIPAL

*Sridhar Arumugasamy*  
**Sridhar Arumugasamy**  
MANAGING DIRECTOR



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# Certificate of Completion

This is to certify that JEGAN ABISHEK.A of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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

*Sridhar Arumugasamy*  
Sridhar Arumugasamy  
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# Certificate of Completion

This is to certify that BODBALAN.M.....of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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: 91.....

*E. Vakaimalar*

**Dr.E.Vakaimalar**

HoD/IT

*S.Senthil*

**Dr.S.Senthil**

PRINCIPAL

*Sridhar Arumugasamy*

**Sridhar Arumugasamy**

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# Certificate of Completion

This is to certify that SAKESH.R.....of

II Year IT has successfully completed the Value Added Course on

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 93.....



Dr.E.Vakaimalar

HoD/IT



Dr.S.Senthil

PRINCIPAL



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# Certificate of Completion

This is to certify that ..... SUVETHA.C ..... of

II Year IT has successfully completed the Value Added Course on

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark:..... 91 .....



**Dr.E.Vakaimalar**

HoD/IT



**Dr.S.Senthil**

PRINCIPAL



**Sridhar Arumugasamy**

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# Certificate of Completion

This is to certify that PON KARTHIGA.A.....of

II Year IT has successfully completed the Value Added Course on


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Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 87.....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
PRINCIPAL

  
Sridhar Arumugasamy  
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# Certificate of Completion

This is to certify that ..... SELVA BALAJI ..... of  
II Year IT has successfully completed the Value Added Course on  
**RECONNOITRE C PROGRAMMING**  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**  
Kamaraj College of Engineering and Technology (Autonomous)  
Assessment Mark:..... 92 .....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that RAPHAEL BENADIT, G.....of

II Year IT has successfully completed the Value Added Course on


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Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 83.....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that DARIN VIDHU. A.....of

II Year IT has successfully completed the Value Added Course on

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Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 94.....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
PRINCIPAL

  
Sridhar Arumugasamy  
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# Certificate of Completion

This is to certify that RATHEASHYAMA.P.....of

II Year IT has successfully completed the Value Added Course on

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

Assessment Mark: 84.....



**Dr.E.Vakaimalar**

HoD/IT



**Dr.S.Senthil**

PRINCIPAL



**Sridhar Arumugasamy**

MANAGING DIRECTOR

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# Certificate of Completion

This is to certify that MAHA SWETHA. N.....of

II Year IT has successfully completed the Value Added Course on


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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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

Assessment Mark: 93.....

  
**Dr.E.Vakaimalar**  
HoD/IT

  
**Dr.S.Senthil**  
PRINCIPAL

  
**Sridhar Arumugasamy**  
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# Certificate of Completion

This is to certify that GAYATHRI. B.....of

II Year IT has successfully completed the Value Added Course on


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

Assessment Mark: 86.....

  
**Dr.E.Vakaimalar**  
HoD/IT

  
**Dr.S.Senthil**  
PRINCIPAL

  
**Sridhar Arumugasamy**  
MANAGING DIRECTOR

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**AUTONOMOUS**

# Certificate of Completion

This is to certify that ..... *SHALINI. R* ..... of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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  
HoD/IT

*Senthil*  
Dr.S.Senthil  
PRINCIPAL

*Sridhar Arumugasamy*  
Sridhar Arumugasamy  
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# Certificate of Completion

This is to certify that VINDTH KANNA. N.B.....of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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: 8).....

*E. Vakaimalar*  
**Dr.E.Vakaimalar**  
HoD/IT

*S.S.*  
**Dr.S.Senthil**  
PRINCIPAL

*Sridhar Arumugasamy*  
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# Certificate of Completion

This is to certify that ..... *SUBHASH . S* ..... of

II Year IT has successfully completed the Value Added Course on

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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

Assessment Mark:.....*81*.....

*E. Vakaimalar*  
Dr.E.Vakaimalar  
HoD/IT

*S.S.*  
Dr.S.Senthil  
PRINCIPAL

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# Certificate of Completion

This is to certify that ABINAYA. R.....of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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: 95.....

*E. Vakaimalar*  
Dr.E.Vakaimalar  
HoD/IT

*Senthil*  
Dr.S.Senthil  
PRINCIPAL

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# Certificate of Completion

This is to certify that SOUNDARAPANDIAN.K.....of  
II Year IT has successfully completed the Value Added Course on  
**RECONNOITRE C 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: 89.....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that ..... *MONICA J* ..... of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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

*Sridhar Arumugasamy*  
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# Certificate of Completion

This is to certify that MUTHU SUBHASHINI . V of

II Year IT has successfully completed the Value Added Course on


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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

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that ..... FARSEEL . M. H ..... of

II Year IT has successfully completed the Value Added Course on

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

Assessment Mark: 87 .....

*E. Vakaimalar*

**Dr.E.Vakaimalar**

HoD/IT

*S.Sentil*

**Dr.S.Senthil**

PRINCIPAL

*Sridhar Arumugasamy*

**Sridhar Arumugasamy**

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# Certificate of Completion

This is to certify that RISHWANA BEGAM.I.....of

II Year IT has successfully completed the Value Added Course on


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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.....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that ..... *R DHINI . V* ..... of

II Year IT has successfully completed the Value Added Course on

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from 12-02-2024 to 17-02-2024 in association with

**DEPARTMENT OF INFORMATION TECHNOLOGY**

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

Assessment Mark: *92* .....

*E. Vakaimalar*

**Dr.E.Vakaimalar**

HoD/IT

*S. Senthil*

**Dr.S.Senthil**

PRINCIPAL

*Sridhar Arumugasamy*

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# Certificate of Completion

This is to certify that MUTHURAMKUMAR. J.....of

II Year IT has successfully completed the Value Added Course on

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

Assessment Mark: 87.....



Dr.E.Vakaimalar

HoD/IT



Dr.S.Senthil

PRINCIPAL



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# Certificate of Completion

This is to certify that ABIRAM.M.....of

II Year IT has successfully completed the Value Added Course on

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

Assessment Mark: 90.....

*E. Vakaimalar*

**Dr.E.Vakaimalar**

HoD/IT

*S.Senthil*

**Dr.S.Senthil**

PRINCIPAL

*Sridhar Arumugasamy*

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# Certificate of Completion

This is to certify that DEVI PRABHA.S.....of

II Year IT has successfully completed the Value Added Course on


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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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

Assessment Mark:.....91.....

  
**Dr.E.Vakaimalar**  
HoD/IT

  
**Dr.S.Senthil**  
PRINCIPAL

  
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# Certificate of Completion

This is to certify that VISHNULAKSHMI.G of  
II Year IT has successfully completed the Value Added Course on  
**RECONNOITRE C PROGRAMMING**  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**  
Kamaraj College of Engineering and Technology (Autonomous)  
Assessment Mark: 93

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that MALATHI, M of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C PROGRAMMING**

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 91

  
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HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that ..... MANGALYA. J ..... of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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: 92 .....

*E. Vakaimalar*  
Dr.E.Vakaimalar  
HoD/IT

*Senthil*  
Dr.S.Senthil  
PRINCIPAL

*Sridhar Arumugasamy*  
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# Certificate of Completion

This is to certify that SYED YASHIN, S.....of

II Year IT has successfully completed the Value Added Course on


**RECONNOITRE C PROGRAMMING**

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 88.....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that ..... GOPIKA.B ..... of

II Year IT has successfully completed the Value Added Course on


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Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 94 .....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
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# Certificate of Completion

This is to certify that MADHUBHAVAN, G of

II Year IT has successfully completed the Value Added Course on

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 91

*E. Vakaimalar*

Dr.E.Vakaimalar

HoD/IT

*S. Senthil*

Dr.S.Senthil

PRINCIPAL

*Sridhar Arumugasamy*

Sridhar Arumugasamy

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# Certificate of Completion

This is to certify that ANISHA YASMIN.A.....of

II Year IT has successfully completed the Value Added Course on


**RECONNOITRE C PROGRAMMING**

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 93.....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
PRINCIPAL

  
Sridhar Arumugasamy  
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**AUTONOMOUS**

# Certificate of Completion

This is to certify that ..... **AKSHAYA. J** ..... of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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** .....



Dr. E. Vakaimalar

HoD/IT



Dr. S. Senthil

PRINCIPAL



Sridhar Arumugasamy

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# Certificate of Completion

This is to certify that NIRANJAN KUMAR . P of

II Year IT has successfully completed the Value Added Course on


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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 88

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
PRINCIPAL

  
Sridhar Arumugasamy  
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# Certificate of Completion

This is to certify that ..... VASANTHAKUMAR.S ..... of

II Year IT has successfully completed the Value Added Course on

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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

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

*E. Vakaimalar*

Dr.E.Vakaimalar

HoD/IT

*S.Senthil*

Dr.S.Senthil

PRINCIPAL

*Sridhar Arumugasamy*

Sridhar Arumugasamy

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**AUTONOMOUS**

# Certificate of Completion

This is to certify that KAVI PRASATH.S.....of

II Year IT has successfully completed the Value Added Course on


**RECONNOITRE C PROGRAMMING**

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark:.....8).....

  
Dr.E.Vakaimalar  
HoD/IT

  
Dr.S.Senthil  
PRINCIPAL

  
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# Certificate of Completion

This is to certify that ..... MUNEESWARAN.K ..... of

II Year IT has successfully completed the Value Added Course on

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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

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



**Dr.E.Vakaimalar**

HoD/IT



**Dr.S.Senthil**

PRINCIPAL



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**AUTONOMOUS**

# Certificate of Completion

This is to certify that ..... ANAND.S ..... of

II Year IT has successfully completed the Value Added Course on

**RECONNOITRE C 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 .....



**Dr.E.Vakaimalar**

HoD/IT



**Dr.S.Senthil**

PRINCIPAL



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**AUTONOMOUS**

# Certificate of Completion

This is to certify that KARTHICK.M.....of

II Year IT has successfully completed the Value Added Course on

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Kamaraj College of Engineering and Technology (Autonomous)

Assessment Mark: 84.....

  
Dr.E.Vakaimalar

HoD/IT

  
Dr.S.Senthil

PRINCIPAL



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**AUTONOMOUS**

# Certificate of Completion

This is to certify that XAVIER RAJ.M.....of

II Year IT has successfully completed the Value Added Course on:

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

Assessment Mark: 82.....

*E. Vakaimalar*

**Dr.E.Vakaimalar**

HoD/IT

*Senthil*

**Dr.S.Senthil**

PRINCIPAL

*Sridhar Arumugasamy*

**Sridhar Arumugasamy**

MANAGING DIRECTOR

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on “Reconnoitre C Programming”  
(12.02.2024 to 17.02.2024)**

**MULTI CHOICE QUESTIONS**

**Department : Information Technology**

**Regulation : R 2021**

**Year : II-IT A & B**

**Semester : IV**

**Total Marks : 60**

**PART A (30 \*1=30 Marks)**

1 ) Which of the following statements should be used to obtain a remainder after dividing 3.14 by 2.1 ?

a)  $\text{rem} = 3.14 \% 2.1;$

b)  $\text{rem} = \text{modf}(3.14, 2.1);$

c)  $\text{rem} = \text{fmod}(3.14, 2.1);$

**d) Remainder cannot be obtain in floating point division.**

2) Which special character is allowed in an identifier declaration?

a) @ at

b) - Hyphen

c) \$ Dollar

**d) \_ Underscore**

e) # Hash



3) What will be the output of `ceil(2.001)` ?

a) 2

b) 0

c) **3**

d) Error

4) What will be the output of `sizeof(3.0)`

a) 2

b) 4

c) 12

d) **8**

5) What will be the output of `printf("KCCT\a\aE\n");`

a) KCCTE

b) KCCT

c) KCCE

d) **KCET**

6) What will be the output `printf("%d %c", 65, 65)?`

a) **65 A**

b) 65 65

c) A A

d) A 65

7) What will be the output of the following code snippet?

```
num = 1;
while ( num <= 10)
{
    if ( num % 3 == 0)
    {
        printf("%d ", num);
        num += 1;
    }
}
```

**a) 3 6 9**

b) Runtime Error

c) 3 6 9 12

d) Endless loop

8) Which statement does not require a semi-colon?

**a) #define PI 3.1415926**

b) int num=1234

c) goto label

d) do{ ...} while(expression)

9)What will be the output of the following code ?

```
printf("%d",printf("Hello World"));
```

a) Error

**b) 11Hello World**

c) Hello World11

d) No Output

10) What will be the output of the code snippet?

```
int ctr;
ctr = 0;
while ( ctr < printf("KCET\n") )
{
    ctr+=1;
}
```

- a) prints KCET 5 times in seperate lines
- b) prints KCET 6 times in seperate lines**
- c) Compilation Error
- d) Prints KCET repeatedly, in an endless loop

11 ) What will be the output of the following code ?

```
#include <stdio.h>

int main()
{
    int n1=10,n2=2,res;
    res = n1 + n2 * n1 + 10 / 2 * n1;
    printf("res =%d",res);
}
```

- a) res = 80**
- b) res = 125
- c) res = 1250
- d) res = 160

12) The statement `printf("%d", 25?5?0:5:25);` will print

- A. 5
- B. Compile time error
- C. 0**
- D. 25

13) Match function usage C language      Output in float data type format

A	<code>ceil(3.6)</code>	1	32.000000
B	<code>floor(3.6)</code>	2	3.000000
C	<code>pow(2,5)</code>	3	12.000000
D	<code>abs(-12)</code>	4	25.000000
		5	4.000000
		6	0.000000

A. A-5,B-2,C-4,D-3

B. A-2,B-5,C-4,D-3

**C. A-5,B-2,C-1,D-3**

D. A-2,B-6,C-1,D-3

14) \_\_\_\_\_ function is used to show a key pressed by a user will appear on the screen.

- A. `getche()`**
- B. `getsf()`
- C. `gfets()`
- D. `getch()`

15) What is the output of the following Code ?

```
int val;

val = 1;

switch ( val )

{

    case 0 : printf("Kamaraj");

    case 1 : printf("College");

    case 2 : printf("Of");

    case 3 : printf("Engineering");

    case 4 : printf("And");

    case 5 : printf("Technology");

    default : printf("Virudhunagar");

}
```

- a) College
- b) CollegeOfEngineeringAndTechnology
- c) CollegeOfEngineeringAndTechnologyVirudhunagar**
- d) None of the above

16) printf() returns number of characters printed.

- a) True**
- b) False

17) char data type can be used for arithmetic operations ALSO.

- a) True**
- b) False

18) Which function has to be used to achieve the following result ?

```
int num;  
num = -10;  
_____  
printf("%d", num);  
  
// output is 10
```

- a) num = ceil(num);
- b) num = floor(num);
- c) num = abs(num);**

19) Size of 'long long int' is \_\_\_\_\_ bits ?

- a) 16
- b) 32
- c) 64**
- d) 80

20) Modulo operator % cannot be applied to float values ?

- a) True**
- b) False

21) 'C' supports boolean data type ?

- a) True
- b) False**

22) 'while' and 'for' are \_\_\_\_\_ constructs ?

- a) Entry Check**
- b) Exit Check

23) sizeof() is an operator.

**a) True**

b) False

24) How many 'default' can a 'switch' have ?

a) Any number

b) 2

**c) 1**

d) 3

25) ?: is \_\_\_\_\_ operator ?

a) Unary

b) Binary

**c) Ternary**

26) How can we add 1 to num ?

a) num = num + 1;

b) num++;

c) ++num;

d) num+=1;

**e) All of the above**

27) 'switch' is faster than cascading 'if..elseif..'

**a) True**

b) False

28) void functions cannot return any value ?

a) **True**

b) False

29) #include<stdio.h>

```
int main ()
{
    while (1)
    {
        print("Hello World");
    }
    return 0;
}
```

a) No output will be printed

b) Hello World

c) Compilation error

d) **Infinite loop**

30) What will be the output of the following code?

```
#include <stdio.h>
```

```
#define pi 3.14159
```

```
int main ()
```

```
{
```

```
float r = 3;
```

```
float circular_area;
```

```
circular_area = pi * r * r;
```

```
printf("%f", circular_area);
```

```
return 0;
```



}

- a) 28
- b) 28.2743**
- c) 29
- d) 18.7564

**PART B (15 \*2=30 Marks)**

31) Among the following loops which is a post tested loop?

- a) while
- b) do-while**
- c) for
- d) If

32)

```
int main()
```

```
{
```

```
    int m;
```

```
    int n;
```

```
    int p;
```

```
    int d;
```

```
    int res1;
```

```
    int res2;
```

```
    res1 = m * n + p / d;
```

```
    res2 = p / d + m * n;
```

```
    printf("%d %d", res1, res2);
```

```
}
```

Comment about the output of the given two statements

- a) Differ by 10
- b) Same**

c) Differ by 20

d) Differ due to left and right precedence

33) What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 == 0)
            continue;
        printf("%d ", iter);
    }
}
```

a) 1 2 3 4 5 6 7 8 9 10

b) 2 4 6 8 10

**c) 1 3 5 7 9**

d) None of the above

34) What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 != 0)
            continue;
        printf("%d ", iter);
    }
}
```

- ```
    }  
}  
a) 1 2 3 4 5 6 7 8 9 10  
b) 2 4 6 8 10  
c) 1 3 5 7 9  
d) None of the above
```

35) What will be the output of the following Code ?

```
int main()  
{  
    int num1;  
    int num2;  
    num1 = 70;  
    num2 = 90;  
    printf("%d %d\n", num1 , num2);  
    num1 = num1 - num2;  
    num2 = num1 + num2;  
    num1 = num2 - num1;  
    printf("%d %d\n", num1 , num2);  
}
```

- a) 70 90  
70 90  
**b) 70 90**  
**90 70**  
c) 70 90  
-20 70  
d) 70 90  
90 -20

36) puts() - prints the string and adds a NEWLINE at the end

a) **True**

b) False

37) Logical operators AND , OR , NOT is represented by

a) || ! &&

b) && ! ||

c) **&& || !**

d) ! || &&

38) What is the output of the following Code ?

```
int main()
{
    int num;
    num = 64;
    printf("%d", num & (num - 1) );
}
```

a) 64

b) 65

c) **0**

d) None of the above

39) What will be the output of the following Code?

```
int main()
{
    int num;
    int res;
    num = 12;
```

```
    res = num ^ 4;
    printf("%d %d", num, res);
}
```

a) 12 12

b) 12 10

**c) 12 8**

d) 8 12

40) What will be the output of the following code?

```
int main()
{
    printf("Hello\nWorld\rHow are you ?");
}
```

a) Hello

World

How are you ?

b) Hello World How are you ?

**c)Hello bHow are you ?**

d) Hello How are you ? World

41) What will be the output of the following Code , if input is 'S' - Capital?

```
int main()
{
    char ch1;
    scanf("%c", &ch1);
    if ( ch1 >= 'A' && ch1 <= 'Z')
    {
        ch1+=32;
    } else if ( ch1 >= 'a' && ch1 <= 'z')
    {
```

```
        ch1-=32;
    }
    else ch1 = 32;
    printf("%c", ch);
}
```

- a) S
- b) 90
- c) s
- d) 32

42) What will be the output of the following Code ?

```
int main()
{
    int data [] = {1,2,3,4,5,6,7,8,9,10};
    printf("%d",6[data]);
}
```

- a) Compilation Error
- b) Runtime Error
- c) 7
- d) 6

43) What will be the output of the following code - input is 100 and 200?

```
int main()
{
    int num1;
    int num2;
    int big;
    scanf("%d %d", &num1, num2);
    big = (num1>num2) ? num1 : num2;
    printf("%d", big);
}
```

}

a) Segmentation Fault - Core Dumped

b) Compilation Error

c) **200**

d) 100

44) What will be the output of the following Code ?

```
int main()
```

```
{
```

```
    int num;
```

```
    int sod;
```

```
    num = 171;
```

```
    sod = 0;
```

```
    while ( num )
```

```
    {
```

```
        sod += (num % 10);
```

```
        num /= 10;
```

```
    }
```

```
    printf("%s", num % sod == 0 ? "Harshad", "Not a Harshad");
```

```
}
```

a) Compilation Error

b) Runtime error

c) **Harshad**

d) Not a Harshad

45) What will be the output of the following Code ?

```
int main()
{
    int res;
    res = power(961,0.5);
    printf("%d", res);
}
```

- a) 13
- b) Compilation Error
- c) **31**
- d) Runtime Error

*Handwritten notes:*  
वॉल लुटिन्वोर  
[5-22 RAM GAMES]  
AP-17

*Handwritten mark:*  
✓  
HDD



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on "Reconnoitre C Programming"**

12.02.2024 to 17.02.2024

**Attendance Sheet**

| Sl. No. | Roll Number | Student Name      | 12.02.2024 |     | 13.02.2024 |     | 14.02.2024 |     | 15.02.2024 |     | 16.02.2024 |     | 17.02.2024 |     |
|---------|-------------|-------------------|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|
|         |             |                   | FN         | AN  | FN         | AN  | FN         | AN  | FN         | AN  | FN         | AN  | FN         | AN  |
| 1       | 22UIT001    | KARTHIKEYAN.J     | JK         | JK  | JK         | JK  | JK         | JK  | JK         | JK  | JK         | JK  | JK         | JK  |
| 2       | 22UIT003    | JEGAN ABISHEK.A   | A.A        | A.A | A.A        | A.A | A.A        | A.A | A.A        | A.A | A.A        | A.A | A.A        | A.A |
| 3       | 22UIT004    | BOOBALAN.M        | MB         | MB  | MB         | MB  | MB         | MB  | MB         | MB  | MB         | MB  | MB         | MB  |
| 4       | 22UIT007    | SAKESH.R          | R.S        | R.S | R.S        | R.S | R.S        | R.S | R.S        | R.S | R.S        | R.S | R.S        | R.S |
| 5       | 22UIT010    | SUVETHA.C         | C.S        | C.S | C.S        | C.S | C.S        | C.S | C.S        | C.S | C.S        | C.S | C.S        | C.S |
| 6       | 22UIT012    | PON KARTHIGA.A    | PK         | PK  | PK         | PK  | PK         | PK  | PK         | PK  | PK         | PK  | PK         | PK  |
| 7       | 22UIT013    | SELVABALAJI.S     | S.S        | S.S | S.S        | S.S | S.S        | S.S | S.S        | S.S | S.S        | S.S | S.S        | S.S |
| 8       | 22UIT019    | RAPHAEL BENADIT.G | RB         | RB  | RB         | RB  | RB         | RB  | RB         | RB  | RB         | RB  | RB         | RB  |
| 9       | 22UIT020    | DARIN VIDHU.A     | DV         | DV  | DV         | DV  | DV         | DV  | DV         | DV  | DV         | DV  | DV         | DV  |
| 10      | 22UIT022    | RATHEASHYAMA.P    | RP         | RP  | RP         | RP  | AB         | AB  | RP         | RP  | RP         | RP  | RP         | RP  |



| Sl. No.                    | Roll Number | Student Name    | 12.02.2024 |       | 13.02.2024      |       | 14.02.2024 |       | 15.02.2024 |       | 16.02.2024 |       | 17.02.2024 |       |
|----------------------------|-------------|-----------------|------------|-------|-----------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|                            |             |                 | FN         | AN    | FN              | AN    | FN         | AN    | FN         | AN    | FN         | AN    | FN         | AN    |
| 27                         | 22UIT070    | MALATHI.M       | Madh       | Math  | <del>Madh</del> | Math  | Math       | Math  | Math       | Math  | Math       | Math  | Math       | Math  |
| 28                         | 22UIT077    | MANGALYA.T      | Mang       | Mang  | Mang            | Mang  | Mang       | Mang  | Mang       | Mang  | Mang       | Mang  | Mang       | Mang  |
| 29                         | 22UIT085    | SYEDYASHIN.S    | Yash       | Yash  | Yash            | Yash  | Yash       | Yash  | Yash       | Yash  | Yash       | Yash  | Yash       | Yash  |
| 30                         | 22UIT086    | GOPIKA.B        | Gopi       | Gopi  | Gopi            | Gopi  | Gopi       | Gopi  | Gopi       | Gopi  | Gopi       | Gopi  | Gopi       | Gopi  |
| 31                         | 22UIT087    | MADHUBHAVANI.G  | Madhu      | Madhu | Madhu           | Madhu | Madhu      | Madhu | Madhu      | Madhu | Madhu      | Madhu | Madhu      | Madhu |
| 32                         | 22UIT091    | ANISHA YASMIN.A | Anish      | Anish | Anish           | Anish | Anish      | Anish | Anish      | Anish | Anish      | Anish | Anish      | Anish |
| 33                         | 22UIT099    | AKSHAYA.T       | Aksh       | Aksh  | Aksh            | Aksh  | Aksh       | Aksh  | Aksh       | Aksh  | Aksh       | Aksh  | Aksh       | Aksh  |
| 34                         | 22UIT108    | NIRANJANKUMAR.P | Niran      | Niran | Niran           | Niran | Niran      | Niran | Niran      | Niran | Niran      | Niran | Niran      | Niran |
| 35                         | 22UIT111    | VASANTHAKUMAR.S | Vas        | Vas   | Vas             | Vas   | Vas        | Vas   | Vas        | Vas   | Vas        | Vas   | Vas        | Vas   |
| 36                         | 22UIT113    | KAVIPRASATH.S   | Kavi       | Kavi  | Kavi            | Kavi  | Kavi       | Kavi  | Kavi       | Kavi  | Kavi       | Kavi  | Kavi       | Kavi  |
| 37                         | 22UIT116    | MUNESWARAN.K    | Muni       | Muni  | Muni            | Muni  | Muni       | Muni  | Muni       | Muni  | Muni       | Muni  | Muni       | Muni  |
| 38                         | 22UIT120    | ANAND.S         | Anan       | Anan  | Anan            | Anan  | Anan       | Anan  | Anan       | Anan  | Anan       | Anan  | Anan       | Anan  |
| 39                         | 22UIT121    | KARTHICK.M      | Karth      | Karth | Karth           | Karth | Karth      | Karth | Karth      | Karth | Karth      | Karth | Karth      | Karth |
| 40                         | 22UIT124    | XAVIER RAJ.M    | Xavie      | Xavie | Xavie           | Xavie | Xavie      | Xavie | Xavie      | Xavie | Xavie      | Xavie | Xavie      | Xavie |
| Total Strength             |             |                 | 40         | 40    | 40              | 40    | 40         | 40    | 40         | 40    | 40         | 40    | 40         | 40    |
| Number of Students Present |             |                 | 39         | 39    | 40              | 40    | 38         | 38    | 40         | 40    | 40         | 40    | 40         | 40    |
| Number of Students Absent  |             |                 | 01         | 01    | -               | -     | 02         | 02    | -          | -     | -          | -     | -          | -     |

| Sl. No.                                     | Roll Number | Student Name | 12.02.2024         |                    | 13.02.2024         |                    | 14.02.2024         |                    | 15.02.2024         |                    | 16.02.2024         |                    | 17.02.2024         |                    |
|---------------------------------------------|-------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                             |             |              | FN                 | AN                 | FN                 | AN                 | FN                 | AN                 | FN                 | AN                 | FN                 | AN                 | FN                 | AN                 |
| Signature of Value Added Course Coordinator |             |              | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |

*[Signature]*  
29/2/24  
UG Coordinator

*[Signature]*  
29/2/24  
HoD / IT

## Review: VAC on "Reconnoitre C Programming"

Respondent

22

MAHA SWETHA.N

03:43

Time to complete

60/60

Points

## PART A (30 \* 1 = 30 MARKS)

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

1. Which of the following statements should be used to obtain a remainder after dividing 3.14 by 2.1 ? \*

- a) `rem = 3.14 % 2.1;`
- b) `rem = modf(3.14, 2.1);`
- c) `rem = fmod(3.14, 2.1);` ✓
- d) Remainder cannot be obtain in floating point division.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

2. Which special character is allowed in an identifier declaration? \*

- a) @ at
- b) - Hyphen
- c) \$ Dollar
- d) \_ Underscore ✓
- e) # Hash

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

3. What will be the output of `ceil(2.001)` ? \*

- a) 2
- b) 0
- c) 3 ✓
- d) Error

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

4. What will be the output of sizeof(3.0) \*

- a) 2
- b) 4
- c) 12
- d) 8 ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

5. What will be the output of printf("KCCT\aaE\n"); \*

- a) KCCTE ✓
- b) KCCT
- c) KCCE
- d) KCET

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

6. What will be the output `printf("%d %c", 65, 65)? *`

- a) 65 A ✓
- b) 65 65
- c) A A
- d) A 65

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

7. What will be the output of the following code snippet?

```
num = 1;
while ( num <= 10)
{
    if ( num % 3 == 0)
    {
        printf("%d ", num);
        num += 1;
    }
} *
```

- a) 3 6 9 ✓
- b) Runtime Error
- c) 3 6 9 12
- d) Endless loop



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

8. Which statement does not require a semi-colon? \*

- a) #define PI 3.1415926 ✓
- b) int num=1234
- c) goto label
- d) do{ ...} while(expression)

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

9. What will be the output of the following code ?

```
printf("%d",printf("Hello World")); *
```

- a) Error
- b) 11Hello World
- c) Hello World11 ✓
- d) No Output

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

10. What will be the output of the code snippet?

```
int ctr;
    ctr = 0;
    while ( ctr < printf("KCET\n") )
    {
        ctr+=1;
    } *
```

- a) prints KCET 5 times in seperate lines
- b) prints KCET 6 times in seperate lines ✓
- c) Compilation Error
- d) Prints KCET repeatedly, in an endless loop

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

11. What will be the output of the following code

```
?
#include <stdio.h>
int main()
{
    int n1=10,n2=2,res;
    res = n1 + n2 * n1 + 10 / 2 * n1;
    printf("res =%d",res);
} *
```

- a) res = 80 ✓
- b) res = 125
- c) res = 1250
- d) res = 160

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

12. The statement `printf("%d", 25?5?0:5:25);` will print \*

- A. 5
- B. Compile time error
- C. 0 ✓
- D. 25

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

13. Match function usage C language  
Output in float data type format

|   |                         |   |            |
|---|-------------------------|---|------------|
| A | <code>ceil(3.6)</code>  | 1 | 32.000000  |
| B | <code>floor(3.6)</code> | 2 | 3.000000   |
| C | <code>pow(2,5)</code>   | 3 | 12.000000  |
| D | <code>abs(-12)</code>   | 4 | 25.000000  |
|   |                         | 5 | 4.000000   |
|   |                         | 6 | 0.000000 * |

- A. A-5,B-2,C-4,D-3
- B. A-2,B-5,C-4,D-3
- C. A-5,B-2,C-1,D-3 ✓
- D. A-2,B-6,C-1,D-3

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

14. \_\_\_\_\_ function is used to show a key pressed by a user will appear on the screen. \*

- A. getch() ✓
- B. getsf()
- C. gfets()
- D. getch()

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

15. What is the output of the following Code ?

```
int val;  
val = 1;  
switch ( val )  
{  
    case 0 : printf("Kamaraj");  
    case 1 : printf("College");  
    case 2 : printf("Of");  
    case 3 : printf("Engineering");  
    case 4 : printf("And");  
    case 5 : printf("Technology");  
    default : printf("Virudhunagar");  
} *
```

- a) College
- b) CollegeOfEngineeringAndTechnology
- c) CollegeOfEngineeringAndTechnologyVirudhunagar ✓
- d) None of the above

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

16. printf() returns number of characters printed. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

17. char data type can be used for arithmetic operations ALSO. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

18. Which function has to be used to achieve the following result ?

```
int num;  
num = -10;  
_____  
printf("%d", num);  
// output is 10 *
```

- a) num = ceil(num);
- b) num = floor(num);
- c) num = abs(num); ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

19. Size of 'long long int' is \_\_\_\_\_ bits ? \*

- a) 16
- b) 32
- c) 64 ✓
- d) 80

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

20. Modulo operator % cannot be applied to float values ? \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

21. 'C' supports boolean data type ? \*

- a) True
- b) False ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

22. 'while' and 'for' are \_\_\_\_\_ constructs ? \*

- a) Entry Check ✓
- b) Exit Check

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

23. sizeof() is an operator. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

24. How many 'default' can a 'switch' have ? \*

- a) Any number
- b) 2
- c) 1 ✓
- d) 3

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

25. ?: is \_\_\_\_\_ operator ? \*

- a) Unary
- b) Binary
- c) Ternary ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

26. How can we add 1 to num ? \*

- a) num = num + 1;
- b) num++;
- c) ++num;
- d) num+=1;
- e) All of the above ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

27. 'switch' is faster than cascading 'if..elseif.' \*

- a) True ✓
- b) False



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

28. void functions cannot return any value ? \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

29. #include<stdio.h>

```
int main ()
{
    while (1)
    {
        print("Hello World");
    }
    return 0;
} *
```

- a) No output will be printed
- b) Hello World
- c) Compilation error
- d) Infinite loop ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

30. What will be the output of the following code?

```
#include <stdio.h>
#define pi 3.14159
int main ()
{
    float r = 3;
    float circular_area;
    circular_area = pi * r * r;
    printf("%f", circular_area);
    return 0;
} *
```

- a) 28
- b) 28.2743 ✓
- c) 29
- d) 18.7564

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

31. Among the following loops which is a post tested loop? \*

- a) while
- b) do-while ✓
- c) for
- d) If

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

```
32. int main()
{
    int m;
    int n;
    int p;
    int d;
    int res1;
    int res2;
    res1 = m * n + p / d;
    res2 = p / d + m * n;
    printf("%d %d", res1, res2);
}
```

Comment about the output of the given two statements \*

- a) Differ by 10
- b) Same
- c) Differ by 20
- d) Differ due to left and right precedence ✓

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

33. What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 == 0)
            continue;
        printf("%d ", iter);
    }
}*
```

- a) 1 2 3 4 5 6 7 8 9 10
- b) 2 4 6 8 10
- c) 1 3 5 7 9 ✓
- d) None of the above

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

34. What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 != 0)
            continue;
        printf("%d ", iter);
    }
}*
```

- a) 1 2 3 4 5 6 7 8 9 10
- b) 2 4 6 8 10 ✓
- c) 1 3 5 7 9
- d) None of the above

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

35. What will be the output of the following Code

?

```
int main()
{
    int num1;
    int num2;
    num1 = 70;
    num2 = 90;
    printf("%d %d\n", num1 , num2);
    num1 = num1 - num2;
    num2 = num1 + num2;
    num1 = num2 - num1;
    printf("%d %d\n", num1 , num2);
} *
```

- a) 70 90      70 90
- b) 70 90      90 70 ✓
- c) 70 90      -20 70
- d) 70 90      90 -20

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

36. puts() - prints the string and adds a NEWLINE at the end \*

- a) True ✓
- b) False

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

37. Logical operators AND , OR , NOT is represented by \*

- a) || ! &&
- b) && ! ||
- c) && || ! ✓
- d) ! || &&

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

38. What is the output of the following Code ?

```
int main()
{
    int num;
    num = 64;
    printf("%d", num & (num - 1) );
}
*
```

- a) 64
- b) 65
- c) 0 ✓
- d) None of the above

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

39. What will be the output of the following Code?

```
int main()
{
    int num;
    int res;
    num = 12;
    res = num ^ 4;
    printf("%d %d", num, res);
} *
```

- a) 12 12
- b) 12 10
- c) 12 8 ✓
- d) 8 12

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

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

```
int main()
{
    printf("Hello\nWorld\rHow are you ?");
} *
```

- a) World How are you ? Hello
- b) Hello World How are you ?
- c) Hello How are you ? ✓
- d) Hello How are you ? World



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

41. What will be the output of the following Code  
, if input is 'S' - Capital?

```
int main()
{
    char ch1;
    scanf("%c", &ch1);
    if ( ch1 >= 'A' && ch1 <= 'Z')
    {
        ch1+=32;
    } else if ( ch1 >= 'a' && ch1 <= 'z')
    {
        ch1-=32;
    }
    else ch1 = 32;
    printf("%c", ch);
} *
```

- a) S
- b) 90
- c) s ✓
- d) 32

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

42. What will be the output of the following Code

?

```
int main()
{
    int data [] = {1,2,3,4,5,6,7,8,9,10};
    printf("%d",6[data]);
} *
```

- a) Compilation Error
- b) Runtime Error
- c) 7 ✓
- d) 6

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

43. What will be the output of the following code  
- input is 100 and 200?

```
int main()
{
    int num1;
    int num2;
    int big;
    scanf("%d %d", &num1, num2);
    big = (num1 > num2) ? num1 : num2;
    printf("%d", big);
} *
```

- a) Segmentation Fault - Core Dumped
- b) Compilation Error
- c) 200 ✓
- d) 100

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

44. What will be the output of the following Code

?

```
int main()
{
    int num;
    int sod;
    num = 171;
    sod = 0;
    while ( num )
    {
        sod += (num % 10);
        num /= 10;
    }
    printf("%s", num % sod == 0 ?
"Harshad":"Not a Harshad");
} *
```

- a) Compilation Error
- b) Runtime error
- c) Harshad ✓
- d) Not a Harshad

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

45. What will be the output of the following Code

?

```
#include<math.h>
int main()
{
    int res;
    res = pow(961,0.5);
    printf("%d", res);
}*
```

- a) 13
- b) Compilation Error
- c) 31 ✓
- d) Runtime Error

## Review: VAC on "Reconnoitre C Programming"

Respondent

59

RAPHAEL BENADIT.G

04:46

Time to complete

51/60

Points

## PART A (30 \* 1 = 30 MARKS)

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

1. Which of the following statements should be used to obtain a remainder after dividing 3.14 by 2.1 ? \*

- a) `rem = 3.14 % 2.1;`
- b) `rem = modf(3.14, 2.1);`
- c) `rem = fmod(3.14, 2.1);` ✓
- d) Remainder cannot be obtain in floating point division.

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

2. Which special character is allowed in an identifier declaration? \*

- a) @ at
- b) - Hyphen
- c) \$ Dollar
- d) \_ Underscore ✓
- e) # Hash

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

3. What will be the output of `ceil(2.001)` ? \*

- a) 2
- b) 0
- c) 3 ✓
- d) Error

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

4. What will be the output of `sizeof(3.0)` ? \*

- a) 2
- b) 4
- c) 12
- d) 8 ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

5. What will be the output of `printf("KCCT\ a\ aE\n");` ? \*

- a) KCCTE ✓
- b) KCCT
- c) KCCE
- d) KCET

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

6. What will be the output `printf("%d %c", 65, 65)`? \*

- a) 65 A ✓
- b) 65 65
- c) A A
- d) A 65

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

7. What will be the output of the following code snippet?

```
num = 1;
while ( num <= 10)
{
    if ( num % 3 == 0)
    {
        printf("%d ", num);
        num += 1;
    }
} *
```

- a) 3 6 9 ✓
- b) Runtime Error
- c) 3 6 9 12
- d) Endless loop

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

8. Which statement does not require a semi-colon? \*

- a) #define PI 3.1415926 ✓
- b) int num=1234
- c) goto label
- d) do{ ...} while(expression)

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

9. What will be the output of the following code ?

```
printf("%d",printf("Hello World")); *
```

- a) Error
- b) 11Hello World
- c) Hello World11 ✓
- d) No Output



✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

10. What will be the output of the code snippet?

```
int ctr;
ctr = 0;
while ( ctr < printf("KCET\n") )
{
    ctr+=1;
} *
```

- a) prints KCET 5 times in seperate lines
- b) prints KCET 6 times in seperate lines ✓
- c) Compilation Error
- d) Prints KCET repeatedly, in an endless loop

✗ **Incorrect** 0/1 Points0 / 1 pt  
Auto-graded

11. What will be the output of the following code ?

```
#include <stdio.h>
int main()
{
    int n1=10,n2=2,res;
    res = n1 + n2 * n1 + 10 / 2 * n1;
    printf("res =%d",res);
} *
```

- a) res = 80 ✓
- b) res = 125
- c) res = 1250
- d) res = 160

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded12. The statement `printf("%d", 25?5?0:5:25);` will print \*

- A. 5
- B. Compile time error
- C. 0 ✓
- D. 25

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

13. Match function usage C language  
Output in float data type format

|   |            |   |            |
|---|------------|---|------------|
| A | ceil(3.6)  | 1 | 32.000000  |
| B | floor(3.6) | 2 | 3.000000   |
| C | pow(2,5)   | 3 | 12.000000  |
| D | abs(-12)   | 4 | 25.000000  |
|   |            | 5 | 4.000000   |
|   |            | 6 | 0.000000 * |

- A. A-5,B-2,C-4,D-3
- B. A-2,B-5,C-4,D-3
- C. A-5,B-2,C-1,D-3 ✓
- D. A-2,B-6,C-1,D-3

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

14. \_\_\_\_\_ function is used to show a key pressed by a user will appear on the screen. \*

- A. getch() ✓
- B. getsf()
- C. gfets()
- D. getch()

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

15. What is the output of the following Code ?

```
int val;
val = 1;
switch ( val )
{
    case 0 : printf("Kamaraj");
    case 1 : printf("College");
    case 2 : printf("Of");
    case 3 : printf("Engineering");
    case 4 : printf("And");
    case 5 : printf("Technology");
    default : printf("Virudhunagar");
} *
```

- a) College
- b) CollegeOfEngineeringAndTechnology
- c) CollegeOfEngineeringAndTechnologyVirudhunagar ✓
- d) None of the above

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

16. printf() returns number of characters printed. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

17. char data type can be used for arithmetic operations ALSO. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

18. Which function has to be used to achieve the following result ?

```
int num;  
num = -10;  
_____  
printf("%d", num);  
// output is 10 *
```

- a) num = ceil(num);
- b) num = floor(num);
- c) num = abs(num); ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

19. Size of 'long long int' is \_\_\_\_\_ bits ? \*

- a) 16
- b) 32
- c) 64 ✓
- d) 80

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

20. Modulo operator % cannot be applied to float values ? \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

21. 'C' supports boolean data type ? \*

- a) True
- b) False ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

22. 'while' and 'for' are \_\_\_\_\_ constructs ? \*

- a) Entry Check ✓
- b) Exit Check

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

23. sizeof() is an operator. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

24. How many 'default' can a 'switch' have ? \*

- a) Any number
- b) 2
- c) 1 ✓
- d) 3

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

25. ?: is \_\_\_\_\_ operator ? \*

- a) Unary
- b) Binary
- c) Ternary ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

26. How can we add 1 to num ? \*

- a) num = num + 1;
- b) num++;
- c) ++num;
- d) num+=1;
- e) All of the above ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

27. 'switch' is faster than cascading 'if..elseif..' \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

28. void functions cannot return any value ? \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

29. #include<stdio.h>  
int main ()  
{  
    while (1)  
    {  
        print("Hello World");  
    }  
    return 0;  
} \*

- a) No output will be printed
- b) Hello World
- c) Compilation error
- d) Infinite loop ✓

✓ **Correct** 1/1 Points1 / 1 pt  
Auto-graded

30. What will be the output of the following code?

```
#include <stdio.h>
#define pi 3.14159
int main ()
{
    float r = 3;
    float circular_area;
    circular_area = pi * r * r;
    printf("%f", circular_area);
    return 0;
} *
```

- a) 28
- b) 28.2743 ✓
- c) 29
- d) 18.7564

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

31. Among the following loops which is a post tested loop? \*

- a) while
- b) do-while ✓
- c) for
- d) If

✗ **Incorrect** 0/2 Points0 / 2 pts  
Auto-graded

32. int main()

```
{
    int m;
    int n;
    int p;
    int d;
    int res1;
    int res2;
    res1 = m * n + p / d;
    res2 = p / d + m * n;
    printf("%d %d", res1, res2);
}
```

Comment about the output of the given two statements \*

- a) Differ by 10
- b) Same
- c) Differ by 20
- d) Differ due to left and right precedence ✓

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

33. What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 == 0)
            continue;
        printf("%d ", iter);
    }
}*
```

- a) 1 2 3 4 5 6 7 8 9 10
- b) 2 4 6 8 10
- c) 1 3 5 7 9 ✓
- d) None of the above

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

34. What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 != 0)
            continue;
        printf("%d ", iter);
    }
}*
```

- a) 1 2 3 4 5 6 7 8 9 10
- b) 2 4 6 8 10 ✓
- c) 1 3 5 7 9
- d) None of the above

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

35. What will be the output of the following Code ?

```
int main()
{
    int num1;
    int num2;
    num1 = 70;
    num2 = 90;
    printf("%d %d\n", num1 , num2);
    num1 = num1 - num2;
    num2 = num1 + num2;
    num1 = num2 - num1;
    printf("%d %d\n", num1 , num2);
} *
```

- a) 70 90    70 90
- b) 70 90    90 70 ✓
- c) 70 90    -20 70
- d) 70 90    90 -20

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

36. puts() - prints the string and adds a NEWLINE at the end \*

- a) True ✓
- b) False

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

37. Logical operators AND , OR , NOT is represented by \*

- a) || ! &&
- b) && ! ||
- c) && || ! ✓
- d) ! || &&



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

38. What is the output of the following Code ?

```
int main()
{
    int num;
    num = 64;
    printf("%d", num & (num - 1));
}
*
```

- a) 64
- b) 65
- c) 0 ✓
- d) None of the above

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

39. What will be the output of the following Code?

```
int main()
{
    int num;
    int res;
    num = 12;
    res = num ^ 4;
    printf("%d %d", num, res);
}
*
```

- a) 12 12
- b) 12 10
- c) 12 8 ✓
- d) 8 12

✗ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

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

```
int main()
{
    printf("Hello\nWorld\rHow are you ?");
}
*
```

- a) World How are you ? Hello
- b) Hello World How are you ?
- c) Hello How are you ? ✓
- d) Hello How are you ? World

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

41. What will be the output of the following Code , if input is 'S' - Capital?

```
int main()
{
    char ch1;
    scanf("%c", &ch1);
    if ( ch1 >= 'A' && ch1 <= 'Z')
    {
        ch1+=32;
    } else if ( ch1 >= 'a' && ch1 <= 'z')
    {
        ch1-=32;
    }
    else ch1 = 32;
    printf("%c", ch);
}*
```

- a) S
- b) 90
- c) s ✓
- d) 32

✓ **Correct** 2/2 Points2 / 2 pts  
Auto-graded

42. What will be the output of the following Code ?

```
int main()
{
    int data [] = {1,2,3,4,5,6,7,8,9,10};
    printf("%d",6[data]);
}*
```

- a) Compilation Error
- b) Runtime Error
- c) 7 ✓
- d) 6

✗ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

43. What will be the output of the following code - input is 100 and 200?

```
int main()
{
    int num1;
    int num2;
    int big;
    scanf("%d %d", &num1, num2);
    big = (num1 > num2) ? num1 : num2;
    printf("%d", big);
}*
```

- a) Segmentation Fault - Core Dumped
- b) Compilation Error
- c) 200 ✓
- d) 100

✗ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

44. What will be the output of the following Code ?

```
int main()
{
    int num;
    int sod;
    num = 171;
    sod = 0;
    while ( num )
    {
        sod += (num % 10);
        num /= 10;
    }
    printf("%s", num % sod == 0 ? "Harshad":"Not a Harshad");
}*
```

- a) Compilation Error
- b) Runtime error
- c) Harshad ✓
- d) Not a Harshad

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

45. What will be the output of the following Code ?

```
#include<math.h>
int main()
{
    int res;
    res = pow(961,0.5);
    printf("%d", res);
}*
```

- a) 13
- b) Compilation Error
- c) 31 ✓
- d) Runtime Error

## Review: VAC on "Reconnoitre C Programming"

Respondent

37

KARTHIKEYAN.J

17:38

Time to complete

46/60

Points

## PART A (30 \* 1 = 30 MARKS)

**✘ Incorrect** 0/1 Points0 / 1 pt  
Auto-graded

1. Which of the following statements should be used to obtain a remainder after dividing 3.14 by 2.1 ? \*

- a) `rem = 3.14 % 2.1;`
- b) `rem = modf(3.14, 2.1);`
- c) `rem = fmod(3.14, 2.1);` ✓
- d) Remainder cannot be obtain in floating point division.

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

2. Which special character is allowed in an identifier declaration? \*

- a) @ at
- b) - Hyphen
- c) \$ Dollar
- d) \_ Underscore ✓
- e) # Hash

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

3. What will be the output of `ceil(2.001)` ? \*

- a) 2
- b) 0
- c) 3 ✓
- d) Error

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

4. What will be the output of sizeof(3.0) \*

- a) 2
- b) 4
- c) 12
- d) 8 ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

5. What will be the output of printf("KCCT\aaE\n"); \*

- a) KCCTE ✓
- b) KCCT
- c) KCCE
- d) KCET

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

6. What will be the output `printf("%d %c", 65, 65)? *`

- a) 65 A ✓
- b) 65 65
- c) A A
- d) A 65

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

7. What will be the output of the following code snippet?

```
num = 1;
while ( num <= 10)
{
    if ( num % 3 == 0)
    {
        printf("%d ", num);
        num += 1;
    }
} *
```

- a) 3 6 9 ✓
- b) Runtime Error
- c) 3 6 9 12
- d) Endless loop



✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

8. Which statement does not require a semi-colon? \*

- a) #define PI 3.1415926 ✓
- b) int num=1234
- c) goto label
- d) do{ ...} while(expression)

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

9. What will be the output of the following code ?

```
printf("%d",printf("Hello World")); *
```

- a) Error
- b) 11Hello World
- c) Hello World11 ✓
- d) No Output

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

10. What will be the output of the code snippet?

```
int ctr;
    ctr = 0;
    while ( ctr < printf("KCET\n") )
    {
        ctr+=1;
    } *
```

- a) prints KCET 5 times in seperate lines
- b) prints KCET 6 times in seperate lines ✓
- c) Compilation Error
- d) Prints KCET repeatedly, in an endless loop

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

11. What will be the output of the following code

```
?
#include <stdio.h>
int main()
{
    int n1=10,n2=2,res;
    res = n1 + n2 * n1 + 10 / 2 * n1;
    printf("res =%d",res);
} *
```

- a) res = 80 ✓
- b) res = 125
- c) res = 1250
- d) res = 160

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

12. The statement `printf("%d", 25?5?0:5:25);` will print \*

- A. 5
- B. Compile time error
- C. 0 ✓
- D. 25

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

13. Match function usage C language  
Output in float data type format

|   |                         |   |            |
|---|-------------------------|---|------------|
| A | <code>ceil(3.6)</code>  | 1 | 32.000000  |
| B | <code>floor(3.6)</code> | 2 | 3.000000   |
| C | <code>pow(2,5)</code>   | 3 | 12.000000  |
| D | <code>abs(-12)</code>   | 4 | 25.000000  |
|   |                         | 5 | 4.000000   |
|   |                         | 6 | 0.000000 * |

- A. A-5,B-2,C-4,D-3
- B. A-2,B-5,C-4,D-3
- C. A-5,B-2,C-1,D-3 ✓
- D. A-2,B-6,C-1,D-3

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

14. \_\_\_\_\_ function is used to show a key pressed by a user will appear on the screen. \*

- A. getch() ✓
- B. getsf()
- C. gfets()
- D. getch()

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

15. What is the output of the following Code ?

```
int val;  
val = 1;  
switch ( val )  
{  
    case 0 : printf("Kamaraj");  
    case 1 : printf("College");  
    case 2 : printf("Of");  
    case 3 : printf("Engineering");  
    case 4 : printf("And");  
    case 5 : printf("Technology");  
    default : printf("Virudhunagar");  
} *
```

- a) College
- b) CollegeOfEngineeringAndTechnology
- c) CollegeOfEngineeringAndTechnologyVirudhunagar ✓
- d) None of the above

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

16. printf() returns number of characters printed. \*

- a) True ✓
- b) False

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

17. char data type can be used for arithmetic operations ALSO. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

18. Which function has to be used to achieve the following result ?

```
int num;  
num = -10;  
_____  
printf("%d", num);  
// output is 10 *
```

- a) num = ceil(num);
- b) num = floor(num);
- c) num = abs(num); ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

19. Size of 'long long int' is \_\_\_\_\_ bits ? \*

- a) 16
- b) 32
- c) 64 ✓
- d) 80

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

20. Modulo operator % cannot be applied to float values ? \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

21. 'C' supports boolean data type ? \*

- a) True
- b) False ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

22. 'while' and 'for' are \_\_\_\_\_ constructs ? \*

- a) Entry Check ✓
- b) Exit Check

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

23. sizeof() is an operator. \*

- a) True ✓
- b) False

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

24. How many 'default' can a 'switch' have ? \*

- a) Any number
- b) 2
- c) 1 ✓
- d) 3

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

25. ?: is \_\_\_\_\_ operator ? \*

- a) Unary
- b) Binary
- c) Ternary ✓

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

26. How can we add 1 to num ? \*

- a) num = num + 1;
- b) num++;
- c) ++num;
- d) num+=1;
- e) All of the above ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

27. 'switch' is faster than cascading 'if..elseif.' \*

- a) True ✓
- b) False



✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

28. void functions cannot return any value ? \*

- a) True ✓
- b) False

✗ **Incorrect** 0/1 Points

0 / 1 pt  
Auto-graded

29. #include<stdio.h>

```
int main ()
{
    while (1)
    {
        print("Hello World");
    }
    return 0;
} *
```

- a) No output will be printed
- b) Hello World
- c) Compilation error
- d) Infinite loop ✓

✓ **Correct** 1/1 Points

1 / 1 pt  
Auto-graded

30. What will be the output of the following code?

```
#include <stdio.h>
#define pi 3.14159
int main ()
{
    float r = 3;
    float circular_area;
    circular_area = pi * r * r;
    printf("%f", circular_area);
    return 0;
} *
```

- a) 28
- b) 28.2743 ✓
- c) 29
- d) 18.7564

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

31. Among the following loops which is a post tested loop? \*

- a) while
- b) do-while ✓
- c) for
- d) If

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

```
32. int main()
{
    int m;
    int n;
    int p;
    int d;
    int res1;
    int res2;
    res1 = m * n + p / d;
    res2 = p / d + m * n;
    printf("%d %d", res1, res2);
}
```

Comment about the output of the given two statements \*

- a) Differ by 10
- b) Same
- c) Differ by 20
- d) Differ due to left and right precedence ✓

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

33. What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 == 0)
            continue;
        printf("%d ", iter);
    }
}*
```

- a) 1 2 3 4 5 6 7 8 9 10
- b) 2 4 6 8 10
- c) 1 3 5 7 9 ✓
- d) None of the above

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

34. What will be the output of the following code ?

```
int main()
{
    int iter;
    for(iter = 1 ; iter <= 10; iter += 1)
    {
        if ( iter % 2 != 0)
            continue;
        printf("%d ", iter);
    }
}*
```

- a) 1 2 3 4 5 6 7 8 9 10
- b) 2 4 6 8 10 ✓
- c) 1 3 5 7 9
- d) None of the above

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

35. What will be the output of the following Code

?

```
int main()
{
    int num1;
    int num2;
    num1 = 70;
    num2 = 90;
    printf("%d %d\n", num1 , num2);
    num1 = num1 - num2;
    num2 = num1 + num2;
    num1 = num2 - num1;
    printf("%d %d\n", num1 , num2);
}*
```

- a) 70 90      70 90
- b) 70 90      90 70 ✓
- c) 70 90      -20 70
- d) 70 90      90 -20

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

36. puts() - prints the string and adds a NEWLINE at the end \*

- a) True ✓
- b) False

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

37. Logical operators AND , OR , NOT is represented by \*

- a) || ! &&
- b) && ! ||
- c) && || ! ✓
- d) ! || &&

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

38. What is the output of the following Code ?

```
int main()
{
    int num;
    num = 64;
    printf("%d", num & (num - 1) );
}
*
```

- a) 64
- b) 65
- c) 0 ✓
- d) None of the above

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

39. What will be the output of the following Code?

```
int main()
{
    int num;
    int res;
    num = 12;
    res = num ^ 4;
    printf("%d %d", num, res);
} *
```

- a) 12 12
- b) 12 10
- c) 12 8 ✓
- d) 8 12

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

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

```
int main()
{
    printf("Hello\nWorld\rHow are you ?");
} *
```

- a) World How are you ? Hello
- b) Hello World How are you ?
- c) Hello How are you ? ✓
- d) Hello How are you ? World



✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

41. What will be the output of the following Code  
, if input is 'S' - Capital?

```
int main()
{
    char ch1;
    scanf("%c", &ch1);
    if ( ch1 >= 'A' && ch1 <= 'Z')
    {
        ch1+=32;
    } else if ( ch1 >= 'a' && ch1 <= 'z')
    {
        ch1-=32;
    }
    else ch1 = 32;
    printf("%c", ch);
} *
```

- a) S
- b) 90
- c) s ✓
- d) 32

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

42. What will be the output of the following Code

?

```
int main()
{
    int data [] = {1,2,3,4,5,6,7,8,9,10};
    printf("%d",6[data]);
} *
```

- a) Compilation Error
- b) Runtime Error
- c) 7 ✓
- d) 6

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

43. What will be the output of the following code  
- input is 100 and 200?

```
int main()
{
    int num1;
    int num2;
    int big;
    scanf("%d %d", &num1, num2);
    big = (num1 > num2) ? num1 : num2;
    printf("%d", big);
} *
```

- a) Segmentation Fault - Core Dumped
- b) Compilation Error
- c) 200 ✓
- d) 100

✓ **Correct** 2/2 Points

2 / 2 pts  
Auto-graded

44. What will be the output of the following Code

?

```
int main()
{
    int num;
    int sod;
    num = 171;
    sod = 0;
    while ( num )
    {
        sod += (num % 10);
        num /= 10;
    }
    printf("%s", num % sod == 0 ?
"Harshad":"Not a Harshad");
} *
```

- a) Compilation Error
- b) Runtime error
- c) Harshad ✓
- d) Not a Harshad

✘ **Incorrect** 0/2 Points

0 / 2 pts  
Auto-graded

45. What will be the output of the following Code

?

```
#include<math.h>
int main()
{
    int res;
    res = pow(961,0.5);
    printf("%d", res);
}*
```

- a) 13
- b) Compilation Error
- c) 31 ✓
- d) Runtime Error

# KAMARAJ

## COLLEGE OF ENGINEERING & TECHNOLOGY



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(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).

### VALUE ADDED

### “RECONTOIRE IN C PROGRAMMING”

### REPORT

### Calendar



SUBMITTED BY,

A. PONKARTHIGA -22UIT012

T. MONICA -22UIT040

R GAVATHIRI - 22UIT026

| PROJECT-RUBRICS    |                |              |
|--------------------|----------------|--------------|
|                    | Allotted Marks | Scored Marks |
| Report Preparation | 10             | 7            |
| Implementation     | 10             | 7            |
| Output             | 5              | 3            |
| Submission on Time | 5              | 4            |
| Presentation       | 10             | 8            |
| Total              | 40             | 29           |

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26.2.2

**Abstract:**

The C program generates a textual representation of a calendar for a user-input year. It incorporates features like leap year adjustment and uses modular arithmetic to determine the day codes for each month. The program relies on the console for input and output.

**Key Components: Preprocessor**

**Directives:** The code uses preprocessor directives to define constants `TRUE` and `FALSE`, as well as arrays for days in a month and month names.

**Input Function:** The input year function prompts the user to input a year and returns the entered value.

**Day Code Determination:** The determine day code function calculates the day code for January 1st of the given year using Zeller's Congruence, considering leap years.

**Leap Year Check:** The determine leap year function checks if the input year is a leap year and adjusts the number of days in February accordingly.

**Calendar Generation:** The calendar function prints a calendar for the specified year. It iterates over each month, aligns the days with the correct weekdays, and adjusts for leap years.

**Main Function:** The main function serves as the program's entry point. It calls the input function to get the desired year, calculates the day code, determines leap years, and generates the calendar using the calendar function.

**Execution Flow:** The user inputs a year using the input year function. The day code for January 1st of the given year is determined by calling determine day code. The determine leap year function adjusts the number of days in February based on whether the year is a leap year. The calendar function prints a formatted calendar for the entire year, taking into account the calculated day code and any adjustments for leap years.

**Output:** The output consists of a textual representation of a calendar for the specified year, with each month displayed on a new line. The calendar includes weekdays (Sun-Sat) and aligns the dates accordingly. **Conclusion:** This C program provides a basic yet functional calendar generator, demonstrating the use of functions, arrays, and conditional statements to create a simple calendar interface for a given year.

## PROGRAM:

```
#include<stdio.h>
#define TRUE 1
#define FALSE 0

int days_in_month[]={0,31,28,31,30,31,30,31,31,30,31,30,31};
char *months[]=
{
    "",
    "\n\n\nJanuary",
    "\n\n\nFebruary",
    "\n\n\nMarch",
    "\n\n\nApril",
    "\n\n\nMay",
    "\n\n\nJune",
    "\n\n\nJuly",
    "\n\n\nAugust",
    "\n\n\nSeptember",
    "\n\n\nOctober",
    "\n\n\nNovember",
    "\n\n\nDecember"
};

int inputyear(void)
{
    int year;

    printf("Please enter a year (example: 1999) : ");scanf("%d",
    &year);
    return year;
}
```



```
)int determinedaycode(int year)
{
    int daycode;
    int d1, d2, d3;
    d1 = (year - 1.) / 4.0;
    d2 = (year - 1.) / 100.;
    d3 = (year - 1.) / 400.;
    daycode = (year + d1 - d2 + d3) % 7;
    return daycode;
}
```

```
int determineleapyear(int year)
{
    if(year % 4 == FALSE && year % 100 != FALSE || year % 400 == FALSE)
    {
        days_in_month[2] = 29;
        return TRUE;
    }
    else
    {
        days_in_month[2] = 28;
        return FALSE;
    }
}
```

9 10 11 12 13 14 15  
16 17 18 19 20 21 22  
23 24 25 26 27 28 29  
30 31

November

Sun Mon Tue Wed Thu Fri Sat

1 2 3 4 5  
6 7 8 9 10 11 12  
13 14 15 16 17 18 19  
20 21 22 23 24 25 26  
27 28 29 30

December

Sun Mon Tue Wed Thu Fri Sat

1 2 3  
4 5 6 7 8 9 10  
11 12 13 14 15 16 17  
18 19 20 21 22 23 24  
25 26 27 28 29 30 31

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

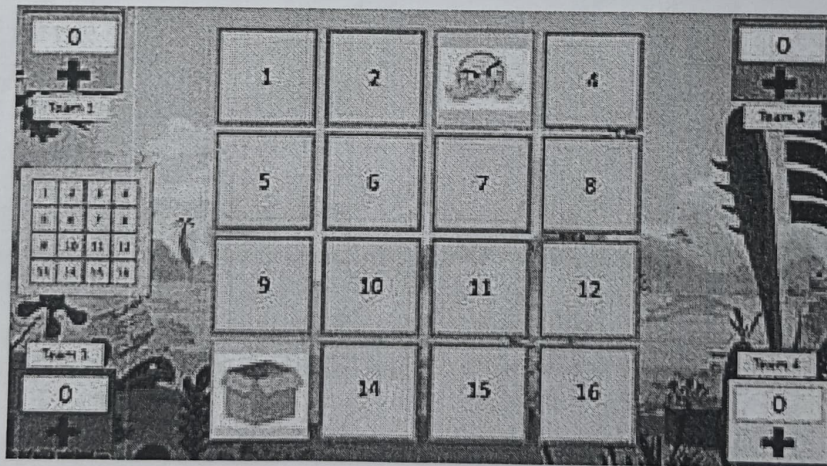
“RECONTOIRE IN C PROGRAMMING”

12.02.2024 TO 17.02.2024

VALUE ADDED COURSE

Memory Power Game

PROJECT REPORT



Submitted by:

G.Madhubhavana(22UIT087)

T.Mangalya(22UIT077)

V.Rohini(22UIT055)

VALUE ADDED COURSE

| PROJECT-RUBRICS    |                |              |
|--------------------|----------------|--------------|
|                    | Allotted Marks | Scored Marks |
| Report Preparation | 10             | 8            |
| Implementation     | 10             | 8            |
| Output             | 5              | 4            |
| Submission on Time | 5              | A            |
| Presentation       | 10             | 8            |
| Total              | 40             | 39           |

H  
26.02.2024

## Abstract:

This program is a memory power game called "Purple Pairs" implemented in C. The game presents a grid of hidden symbols, and the player needs to uncover pairs of matching symbols by selecting two cards at a time. The objective is to find all pairs in the least number of moves.

## Introduction:

Memory power games are popular for improving cognitive abilities, especially memory, concentration, and attention to detail. "Purple Pairs" is a classic example where players exercise their memory by remembering the location of hidden symbols and matching them.

## Key Features:

**Randomized Symbol Placement:** Symbols are randomly placed on the game board at the start of each game session, ensuring a unique challenge every time.

**Interactive Gameplay:** Players interact with the game by selecting pairs of cards, revealing their hidden symbols.

**Feedback Mechanism:** The game provides immediate feedback on each move, indicating whether the selected cards form a matching pair or not.

**Win Condition:** The game continues until the player successfully matches all pairs on the board, at which point a congratulatory message is displayed along with the total number of moves made.

## Objectives:

- Provide an engaging and challenging memory exercise for players.
- Enhance memory retention, concentration, and pattern recognition skills.
- Offer a fun and interactive way to spend leisure time.

## Projectives and Implementation:

- The project aims to implement a memory power game using C programming language.
- The game utilizes a 4x4 grid, but the grid size can be adjusted by modifying the `GRID_SIZE` macro.
- Symbols are represented by characters ('A', 'B', 'C', etc.) and are randomly placed on the hidden board.
- The player interacts with the game by entering the row and column numbers of two cards to reveal their symbols.
- The game logic ensures valid input and handles the matching and mismatching of pairs accordingly.
- Upon finding all pairs, the game concludes and displays the total number of moves taken to win.

Overall, the "Purple Pairs" game serves as an entertaining and educational activity for exercising and enhancing memory skills.

## IMPLEMENTATION

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

#define GRID_SIZE 4
#define TOTAL_CARDS (GRID_SIZE * GRID_SIZE / 2)

char gameBoard[GRID_SIZE][GRID_SIZE];
char hiddenBoard[GRID_SIZE][GRID_SIZE];

void initializeBoard() {
    char symbols[] = {'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H'};
    int count[TOTAL_CARDS];
    int index = 0;

    // Initialize count array
    for (int i = 0; i < TOTAL_CARDS; i++) {
        count[i] = 2;
    }

    // Place symbols randomly on the board
    srand(time(NULL));
    for (int i = 0; i < GRID_SIZE; i++) {
        for (int j = 0; j < GRID_SIZE; j++) {
            int r;
            do {
                r = rand() % TOTAL_CARDS;
            } while (count[r] == 0);
            gameBoard[i][j] = '*'; // Initialize with '*'
            hiddenBoard[i][j] = symbols[r];
            count[r]--;
        }
    }
}
```

1 D A G G

2 F F B B

3 C C D \*

4 \* \* \* A

Enter row and column of two cards (e.g., 1 2 3 4): 3 4 4 1

You found a pair!

'clear' is not recognized as an internal or external command,  
operable program or batch file.

Purple Pairs

=====

1 2 3 4

1 D A G G

2 F F B B

3 C C D E

4 E \* \* A

Enter row and column of two cards (e.g., 1 2 3 4): 4 2 4 3

You found a pair!

'clear' is not recognized as an internal or external command,  
operable program or batch file.

Congratulations! You won in 31 moves.

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**VALUE ADDED COURSE**  
**"RECONNOITRE IN C PROGRAMMING"**

12.02.2024 TO 17.02.2024

**Calendar**  
**PROJECT REPORT**



**SUBMITTED BY,**

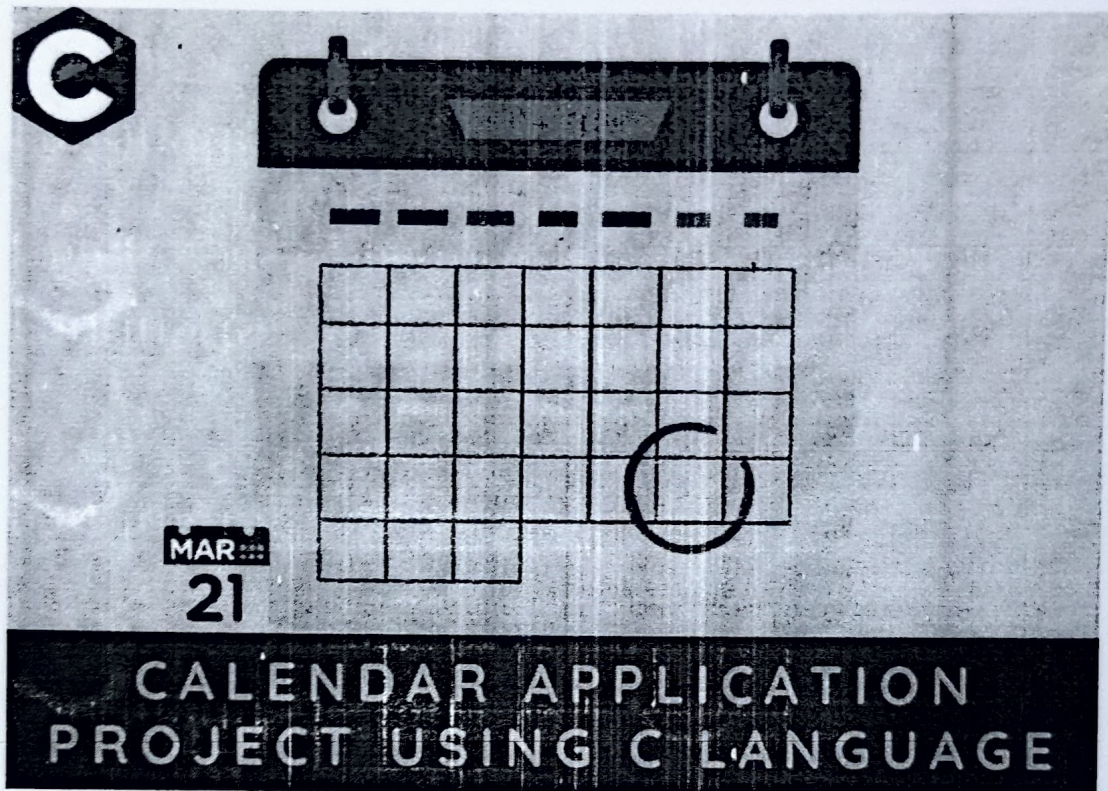
KARTHIKEYAN. J - 22UIT001

SAKESH.R - 22UIT007

| PROJECT-RUBRICS    |                |              |
|--------------------|----------------|--------------|
|                    | Allotted Marks | Scored Marks |
| Report Preparation | 10             | 9            |
| Implementation     | 10             | 9            |
| Output             | 5              | 5            |
| Submission on Time | 5              | 5            |
| Presentation       | 10             | 8            |
| Total              | 40             | 36           |

*[Handwritten signature]*  
24.02.2024

# Calendar Application Project Using C Language



## Leap Years and the Gregorian Calendar

The Gregorian calendar is the most widely used calendar in the world. There are leap years in the Gregorian calendar. There are 303 regular years and 97 leap years in a four-hundred-year span. The majority of people believe that every fourth year is a leap year, although this is not the case.

How can you figure out which years are leap years?

A leap year is one in which the year is divisible by four. It is not a leap year, however, if the year is divisible by 100. It is, nevertheless, a leap year if the year is also divisible by 400. As a result, we may form the following statement:

```
"\n\n\nFebruary",
"\n\n\nMarch",
"\n\n\nApril",
"\n\n\nMay",
"\n\n\nJune",
"\n\n\nJuly",
"\n\n\nAugust",
"\n\n\nSeptember",
"\n\n\nOctober",
"\n\n\nNovember",
"\n\n\nDecember"
};
```

```
int inputyear(void)
```

```
{
```

```
    int year;
```

```
    printf("Please enter a year (example: 1999) : ");
```

```
    scanf("%d", &year);
```

```
    return year;
```

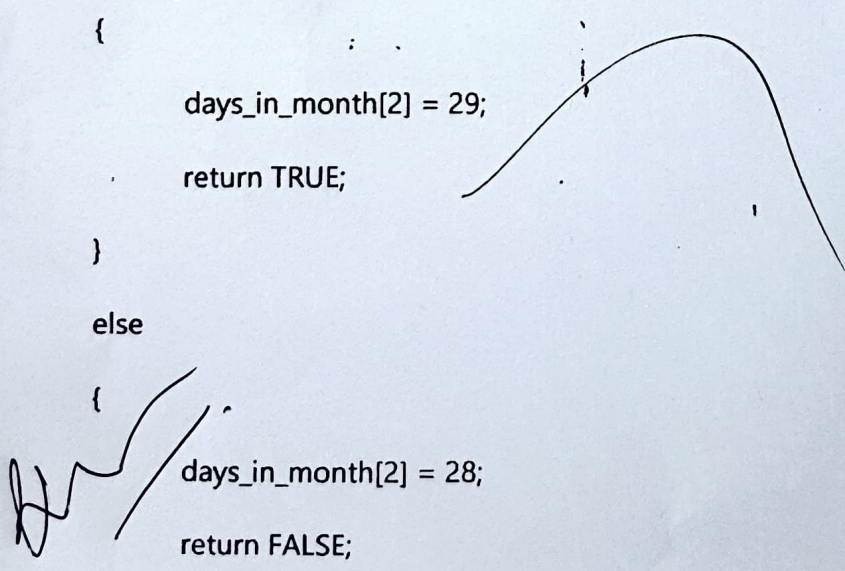
```
}
```

```
int determinedaycode(int year)
```

```
{  
    int daycode;  
    int d1, d2, d3;  
    d1 = (year - 1.) / 4.0;  
    d2 = (year - 1.) / 100.;  
    d3 = (year - 1.) / 400.;  
    daycode = (year + d1 - d2 + d3) % 7;  
    return daycode;  
}
```

```
int determineleapyear(int year)
```

```
{  
    if(year % 4 == FALSE && year % 100 != FALSE || year % 400 == FALSE)  
    {  
        days_in_month[2] = 29;  
        return TRUE;  
    }  
    else  
    {  
        days_in_month[2] = 28;  
        return FALSE;  
    }  
}
```

Handwritten scribbles and a large curved line are present on the page. The scribbles are located on the left side, overlapping the code block. The large curved line is a smooth, hand-drawn arc that starts near the 'return TRUE;' line and extends to the right, crossing the 'return FALSE;' line.



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S.P.G.Chidambara Nadar - C.Nagammal Campus  
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

## VALUE ADDED COURSE "RECONTOIRE IN C PROGRAMMING"

12.02.2024 to 17.02.2024

### PROJECT REPORT




**Submitted by,**

Raphael Benadit.G (22UIT019)

Selva Balaji.S(22UIT013)

Subhash.S (22UIT034)

| PROJECT-RUBRICS    |                |              |
|--------------------|----------------|--------------|
|                    | Allotted Marks | Scored Marks |
| Report Preparation | 10             | 9            |
| Implementation     | 10             | 8            |
| Output             | 5              | 4            |
| Submission on Time | 5              | 4            |
| Presentation       | 10             | 7            |
| Total              | 40             | 32           |

 26.09.24

## **Abstract:**

The Calendar project in C is a console-based application designed to provide users with a straightforward and efficient tool for managing events and dates. This project focuses on creating a user-friendly calendar system with features such as displaying monthly calendars, adding, deleting, and viewing events. The implementation follows a modular structure, organized into main, calendar, and event modules to enhance readability and maintainability. The program ensures proper input validation and error handling, making it robust and reliable. Through extensive testing, the project demonstrates accurate functionality and meets the specified objectives.

The user guide outlines installation steps and program usage, while the project report details the language, tools, modules, and code structure. The conclusion highlights the successful implementation of the project, and future enhancements are proposed to further enhance the calendar application's capabilities. Overall, the Calendar project in C provides a practical and accessible solution for individuals seeking an efficient means of managing their schedules.

## **CALENDER PROJECT REPORT:**

### **1. Introduction**

The Calendar project in C aims to create a simple console-based calendar application that allows users to view and manage events, appointments, and dates. The program provides features such as displaying a monthly calendar, adding events, and viewing events for a specific date.

### **2. Objectives**

The primary objectives of the Calendar project are as follows:

- Develop a user-friendly calendar application in C.
- Implement functions to display a monthly calendar and navigate between months.
- Allow users to add, delete, and view events for specific dates.
- Ensure proper input validation and error handling.
- Maintain a user-friendly interface for seamless interaction.

### **3. Implementation**

#### **3.1. Language and Tools**



The project is implemented in the C programming language, using standard libraries such as `<stdio.h>` and `<stdlib.h>`. The code was written and compiled using a standard C compiler, such as GCC.

### 3.2. Modules

The program is organized into the following modules:

- **Main Module:** Handles the main flow of the program, user interaction, and menu navigation.
- **Calendar Module:** Contains functions for displaying calendars, navigating between months, and managing events.
- **Event Module:** Manages event-related functionalities, including adding, deleting, and viewing events.

### 3.3. Code Structure

The code follows a modular structure to enhance readability and maintainability. Functions are defined for specific tasks, and appropriate comments are included to explain the logic.

## 4. User Guide

### 4.1. Installation

To run the Calendar program, follow these steps:

1. Download the source code files.
2. Compile the code using a C compiler (e.g., GCC).
3. Execute the compiled program.

### 4.2. Usage

Once the program is running, the user can:

- Navigate between months.
- View a monthly calendar.
- Add, delete, or view events for specific dates.

## 5. Results and Testing

The Calendar program has been tested extensively to ensure correct functionality and proper error handling. Various test cases were employed to validate the program's accuracy and reliability.

```

{ "August", 31, 0, 0 },
{"September", 30, 0, 0 },
{"October", 31, 0, 0 },
{ "November", 30, 0, 0 },
{ "December", 31,0,0}
};

void space(int n) { while (n--> 0) putchar(' '); }

void init_months(){
int i;
if (!(year % 4) && (year % 100) || !(year % 400)) months[1].days = 29;
year--;
months[0].start_wday = (year * 365+ year/4-year/100+ year/400 + 1) %
for (i = 1; i < 12; i++) months[i].start_wday =7;
(months[i-1].start_wday + months[i-1].days) %7;
cols = (width + 2) / 22;
while (12 % cols) cols--;
gap = cols - 1? (width - 20 * cols) / (cols - 1): 0;
if (gap > 4) gap = 4;
lead (width (20+ gap) * cols + gap + 1)/2;
year++;
}

void print_row(int row){
int c, i, from = row * cols, to = from + cols; space(lead);
for (c = from; c < to; c++) { i =strlen(months[c].name); space((20-i)/2); printf("%s",
months[c].name);
space(20-i- (20-i)/2 + ((c == to - 1)? 0: gap));
} putchar('\n');
space(lead);
for (c = from; c < to; c++) {
for (i = 0; i < 7; i++)

```

November 2024

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |    |

December 2024

| Mo | Tu | We | Th | Fr | Sa | Su |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

A large, hand-drawn curved line starts from the left side of the page, arches upwards, and then descends towards the right. To the right of this line, there are several handwritten scribbles and symbols, including what appears to be a stylized 'H' or 'A' shape, followed by some illegible characters and a small arrow-like mark pointing towards the right.



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

**Department of Information Technology**

**13. Mark Statement**

**and**

**Assessment Rubrics**

**Value Added Course**

**on**

**“Reconnoitre C Programming”**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on "Reconnoitre C Programming"  
(12.02.2024 to 17.02.2024)**

**Mark Statement**

**Department : Information Technology**

**Regulation : R 2021**

**Year : II-IT A & B**

**Semester : IV**

| S. No. | Roll Number | Register Number | Name              | Internal Marks | External Marks      | Total [100] |
|--------|-------------|-----------------|-------------------|----------------|---------------------|-------------|
|        |             |                 |                   | MCQs [60]      | Project Report [40] |             |
| 1.     | 22UIT001    | 920422205050    | KARTHIKEYAN.J     | 46             | 36                  | 82          |
| 2.     | 22UIT003    | 920422205043    | JEGAN ABISHEK.A   | 58             | 29                  | 87          |
| 3.     | 22UIT004    | 920422205020    | BOOBALAN.M        | 57             | 34                  | 91          |
| 4.     | 22UIT007    | 920422205088    | SAKESH.R          | 57             | 36                  | 93          |
| 5.     | 22UIT010    | 920422205112    | SUVETHA.C         | 60             | 31                  | 91          |
| 6.     | 22UIT012    | 920422205076    | PON KARTHIGA.A    | 60             | 27                  | 87          |
| 7.     | 22UIT013    | 920422205099    | SELVABALAJI.S     | 60             | 32                  | 92          |
| 8.     | 22UIT019    | 920422205081    | RAPHAEL BENDAIT.G | 51             | 32                  | 83          |
| 9.     | 22UIT020    | 920422205022    | DARIN VIDHU.A     | 60             | 34                  | 94          |
| 10.    | 22UIT022    | 920422205082    | RATHEASHYAMA.P    | 60             | 24                  | 84          |
| 11.    | 22UIT024    | 920422205057    | MAHA SWETHA.N     | 60             | 33                  | 93          |
| 12.    | 22UIT026    | 920422205029    | GAYATHIRI.B       | 59             | 27                  | 86          |



TRAINER

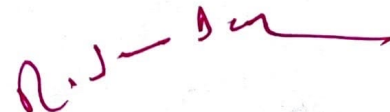


NAC

COORDINATOR  
[G.M RAM GANESH]




HOD/IT




DEAN  
ACADEMICS

| S. No. | Roll Number | Register Number | Name               | Internal Marks | External Marks      | Total [100] |
|--------|-------------|-----------------|--------------------|----------------|---------------------|-------------|
|        |             |                 |                    | MCQs [60]      | Project Report [40] |             |
| 13.    | 22UIT027    | 920422205102    | SHALINI.R          | 60             | 24                  | 84          |
| 14.    | 22UIT032    | 920422205117    | VIONTH KANNA.N.B   | 49             | 32                  | 81          |
| 15.    | 22UIT034    | 920422205108    | SUBHASH.S          | 49             | 32                  | 81          |
| 16.    | 22UIT036    | 920422205003    | ABINAYA.R          | 59             | 36                  | 95          |
| 17.    | 22UIT038    | 920422205105    | SOUNDARAPANDIAN.K  | 60             | 29                  | 89          |
| 18.    | 22UIT040    | 920422205062    | MONICA.T           | 60             | 27                  | 87          |
| 19.    | 22UIT044    | 920422205067    | MUTHU SUBHASHINI.V | 60             | 24                  | 84          |
| 20.    | 22UIT048    | 920422205028    | FARSEEL.M.H        | 60             | 27                  | 87          |
| 21.    | 22UIT053    | 920422205085    | RISHWANA BEGAM.J   | 60             | 24                  | 84          |
| 22.    | 22UIT055    | 920422205087    | ROHINI.V           | 60             | 32                  | 92          |
| 23.    | 22UIT062    | 920422205068    | MUTHURAMKUMAR.J    | 60             | 27                  | 87          |
| 24.    | 22UIT063    | 920422205005    | ABIRAM.M           | 60             | 30                  | 90          |
| 25.    | 22UIT066    | 920422205025    | DEVI PRABHA.S      | 60             | 31                  | 91          |
| 26.    | 22UIT067    | 920422205118    | VISHNULAKSHMI.G    | 60             | 33                  | 93          |
| 27.    | 22UIT070    | 920422205058    | MALATHI.M          | 60             | 31                  | 91          |
| 28.    | 22UIT077    | 920422205059    | MANGALYA.T         | 60             | 32                  | 92          |
| 29.    | 22UIT085    | 920422205113    | SYEDYASHIN.S       | 60             | 28                  | 88          |

  
Trainer

  
VAC  
COORDINATOR

  
HOD/IT

  
DEAN  
ACADEMICS

| S. No. | Roll Number | Register Number | Name            | Internal Marks | External Marks      | Total [100] |
|--------|-------------|-----------------|-----------------|----------------|---------------------|-------------|
|        |             |                 |                 | MCQs [60]      | Project Report [40] |             |
| 30.    | 22UIT086    | 920422205032    | GOPIKA.B        | 58             | 36                  | 94          |
| 31.    | 22UIT087    | 920422205056    | MADHUBHAVANI.G  | 59             | 32                  | 91          |
| 32.    | 22UIT091    | 920422205012    | ANISHA YASMIN.A | 60             | 33                  | 93          |
| 33.    | 22UIT099    | 920422205009    | AKSHAYA.T       | 60             | 33                  | 93          |
| 34.    | 22UIT108    | 920422205073    | NIRANJANKUMAR.P | 60             | 28                  | 88          |
| 35.    | 22UIT111    | 920422205052    | VASANTHAKUMAR.S | 60             | 28                  | 88          |
| 36.    | 22UIT113    | 920422205053    | KAVIPRASATH.S   | 49             | 32                  | 81          |
| 37.    | 22UIT116    | 920422205065    | MUNESWARAN.K    | 57             | 28                  | 85          |
| 38.    | 22UIT120    | 920422205302    | ANAND.S         | 56             | 27                  | 83          |
| 39.    | 22UIT121    | 920422205304    | KARTHICK.M      | 60             | 24                  | 84          |
| 40.    | 22UIT124    | 920422205305    | XAVIER RAJ.M    | 58             | 24                  | 82          |



Sridhar Arumugasamy  
Director




VAC  
COORDINATOR  
[G.M. RAM SANKAR]  
AP)ZT



HDP/ZT



DEAN  
ACADEMICS

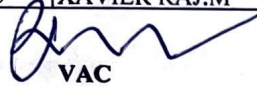
**DEPARTMENT OF INFORMATION TECHNOLOGY**

*Reconnoitre in C Programming -Rubrics*

| S. No. | Roll Number | Register Number | Name               | Report Preparation (10) | Implementation(10) | Output(5) | Submission on Time(5) | Presentation(10) | Total Marks (40) |
|--------|-------------|-----------------|--------------------|-------------------------|--------------------|-----------|-----------------------|------------------|------------------|
| 1.     | 22UIT001    | 920422205050    | KARTHIKEYAN.J      | 9                       | 9                  | 5         | 5                     | 8                | 36               |
| 2.     | 22UIT003    | 920422205043    | JEGAN ABISHEK.A    | 10                      | 10                 | 5         | 4                     | 0                | 29               |
| 3.     | 22UIT004    | 920422205020    | BOOBALAN.M         | 10                      | 10                 | 5         | 4                     | 5                | 34               |
| 4.     | 22UIT007    | 920422205088    | SAKESH.R           | 9                       | 9                  | 5         | 5                     | 8                | 36               |
| 5.     | 22UIT010    | 920422205112    | SUVETHA.C          | 8                       | 9                  | 4         | 4                     | 6                | 31               |
| 6.     | 22UIT012    | 920422205076    | PON KARTHIGA.A     | 7                       | 7                  | 3         | 4                     | 6                | 27               |
| 7.     | 22UIT013    | 920422205099    | SELVABALAJI.S      | 9                       | 8                  | 4         | 4                     | 7                | 32               |
| 8.     | 22UIT019    | 920422205081    | RAPHAEL BENDAIT.G  | 9                       | 8                  | 4         | 4                     | 7                | 32               |
| 9.     | 22UIT020    | 920422205022    | DARIN VIDHU.A      | 10                      | 10                 | 5         | 4                     | 5                | 34               |
| 10.    | 22UIT022    | 920422205082    | RATHEASHYAMA.P     | 6                       | 6                  | 3         | 4                     | 5                | 24               |
| 11.    | 22UIT024    | 920422205057    | MAHA SWETHA.N      | 8                       | 8                  | 4         | 5                     | 8                | 33               |
| 12.    | 22UIT026    | 920422205029    | GAYATHIRI.B        | 7                       | 7                  | 3         | 4                     | 6                | 27               |
| 13.    | 22UIT027    | 920422205102    | SHALINI.R          | 6                       | 6                  | 3         | 4                     | 5                | 24               |
| 14.    | 22UIT032    | 920422205117    | VIONTH KANNA.N.B   | 8                       | 8                  | 4         | 3                     | 9                | 32               |
| 15.    | 22UIT034    | 920422205108    | SUBHASH.S          | 9                       | 8                  | 4         | 4                     | 7                | 32               |
| 16.    | 22UIT036    | 920422205003    | ABINAYA.R          | 10                      | 8                  | 5         | 5                     | 8                | 36               |
| 17.    | 22UIT038    | 920422205105    | SOUNDARAPANDIAN.K  | 10                      | 10                 | 5         | 4                     | 0                | 29               |
| 18.    | 22UIT040    | 920422205062    | MONICA.T           | 7                       | 7                  | 3         | 4                     | 6                | 27               |
| 19.    | 22UIT044    | 920422205067    | MUTHU SUBHASHINI.V | 6                       | 6                  | 3         | 4                     | 5                | 24               |
| 20.    | 22UIT048    | 920422205028    | FARSEEL.M.H        | 7                       | 7                  | 3         | 4                     | 6                | 27               |
| 21.    | 22UIT053    | 920422205085    | RISHWANA BEGAM.J   | 6                       | 6                  | 3         | 4                     | 5                | 24               |
| 22.    | 22UIT055    | 920422205087    | ROHINI.V           | 8                       | 8                  | 4         | 4                     | 8                | 32               |
| 23.    | 22UIT062    | 920422205068    | MUTHURAMKUMAR.J    | 7                       | 7                  | 3         | 4                     | 6                | 27               |
| 24.    | 22UIT063    | 920422205005    | ABIRAM.M           | 8                       | 8                  | 4         | 3                     | 7                | 30               |
| 25.    | 22UIT066    | 920422205025    | DEVI PRABHA.S      | 8                       | 9                  | 4         | 4                     | 6                | 31               |
| 26.    | 22UIT067    | 920422205118    | VISHNULAKSHMI.G    | 8                       | 8                  | 4         | 5                     | 8                | 33               |
| 27.    | 22UIT070    | 920422205058    | MALATHI.M          | 8                       | 9                  | 4         | 4                     | 6                | 31               |
| 28.    | 22UIT077    | 920422205059    | MANGALYA.T         | 8                       | 8                  | 4         | 4                     | 8                | 32               |
| 29.    | 22UIT085    | 920422205113    | SYEDYASHIN.S       | 8                       | 8                  | 4         | 3                     | 5                | 28               |
| 30.    | 22UIT086    | 920422205032    | GOPIKA.B           | 10                      | 8                  | 5         | 5                     | 8                | 36               |



|     |          |              |                 |   |   |   |   |    |    |
|-----|----------|--------------|-----------------|---|---|---|---|----|----|
| 31. | 22UIT087 | 920422205056 | MADHUBHAVANI.G  | 8 | 8 | 4 | 4 | 8  | 32 |
| 32. | 22UIT091 | 920422205012 | ANISHA YASMIN.A | 8 | 8 | 4 | 5 | 8  | 33 |
| 33. | 22UIT099 | 920422205009 | AKSHAYA.T       | 8 | 8 | 4 | 5 | 8  | 33 |
| 34. | 22UIT108 | 920422205073 | NIRANJANKUMAR.P | 8 | 8 | 4 | 3 | 5  | 28 |
| 35. | 22UIT111 | 920422205052 | VASANTHAKUMAR.S | 8 | 8 | 4 | 3 | 5  | 28 |
| 36. | 22UIT113 | 920422205053 | KAVIPRASATH.S   | 6 | 9 | 3 | 4 | 10 | 32 |
| 37. | 22UIT116 | 920422205065 | MUNEESWARAN.K   | 8 | 8 | 4 | 3 | 5  | 28 |
| 38. | 22UIT120 | 920422205302 | ANAND.S         | 7 | 7 | 3 | 4 | 6  | 27 |
| 39  | 22UIT121 | 920422205304 | KARTHICK.M      | 6 | 6 | 3 | 4 | 5  | 24 |
| 40  | 22UIT124 | 920422205305 | XAVIER RAJ.M    | 6 | 6 | 3 | 4 | 5  | 24 |

  
VAC

  
HOD

[A. N. RAM GANESH]  
DP-27

# Day 1 Feedback - Value Added Course on "Reconnoitre C Programming"(12.02.2024)

39 Responses

01:15 Average time to complete

Active Status

1. The objective of the day 1 value added course was met.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 17 |
| ● Agree             | 20 |
| ● Neutral           | 2  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



2. The program sequence was well planned.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 15 |
| ● Agree             | 22 |
| ● Neutral           | 2  |
| ● Disagree          | 0  |
| ● Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                   |    |
|-------------------|----|
| Strongly Agree    | 23 |
| Agree             | 13 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



4. The instructors encouraged the interaction.

|                   |    |
|-------------------|----|
| Strongly Agree    | 23 |
| Agree             | 13 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



5. The information presented in this VAC was highly beneficial.

|                   |    |
|-------------------|----|
| Strongly Agree    | 19 |
| Agree             | 16 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 0  |



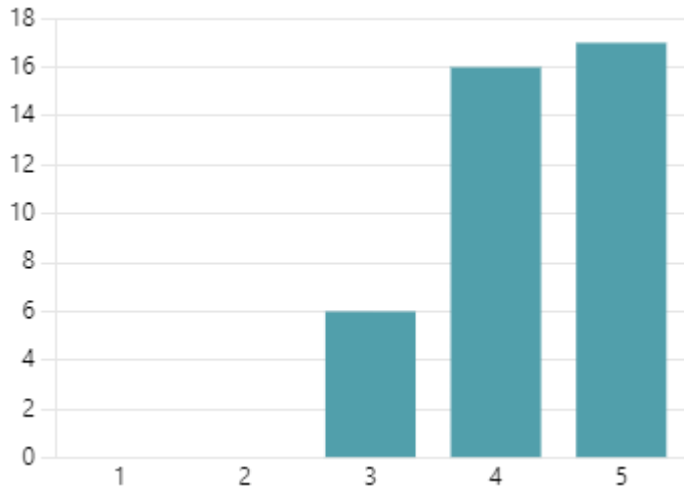
6. Well organized VAC course.

|                   |    |
|-------------------|----|
| Strongly Agree    | 17 |
| Agree             | 19 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



### 7. Overall Rating

4.28  
Average Rating



### 8. Any comments?

37  
Responses

Latest Responses

"Good"

"nice way of teaching"

"Super"

[Update](#)

19 respondents (49%) answered **Best** for this question.



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 VAC COORDINATOR  
 [B. RAM BONES]  
 OP-IT

*[Handwritten checkmark]*  
 HDD

# Day 2 Feedback - Value Added Course on "Reconnoitre C Programming" (13.02.2024)

39 Responses

00:52 Average time to complete

Active Status

1. The objective of the day 1 value added course was met.

|                   |    |
|-------------------|----|
| Strongly Agree    | 15 |
| Agree             | 22 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |



2. The program sequence was well planned.

|                   |    |
|-------------------|----|
| Strongly Agree    | 15 |
| Agree             | 21 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                   |    |
|-------------------|----|
| Strongly Agree    | 17 |
| Agree             | 21 |
| Neutral           | 1  |
| Disagree          | 0  |
| Strongly disagree | 0  |



4. The instructors encouraged the interaction.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 18 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



5. The information presented in this VAC was highly beneficial.

|                   |    |
|-------------------|----|
| Strongly Agree    | 15 |
| Agree             | 21 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



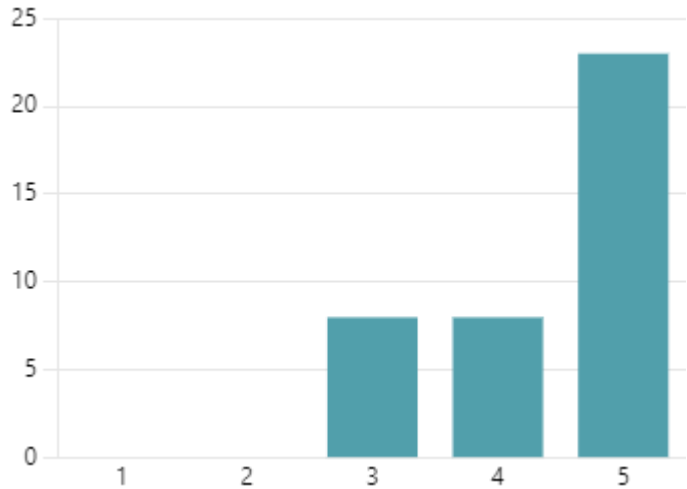
6. Well organized VAC course.

|                   |    |
|-------------------|----|
| Strongly Agree    | 12 |
| Agree             | 24 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



### 7. Overall Rating

4.38  
Average Rating



### 8. Any comments?

37  
Responses

Latest Responses

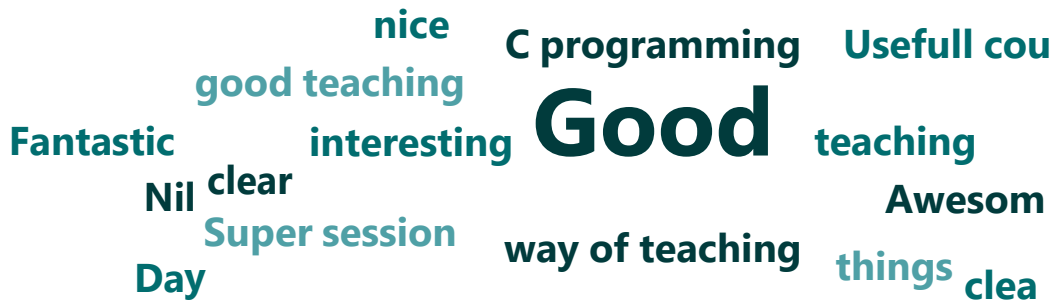
"super"

"Very good sir"

"Nil"

[Update](#)

17 respondents (44%) answered **Good** for this question.



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 VAC COORDINATOR  
 [B. RAM BANERJI]  
 OP-IT

*[Handwritten signature]*  
 ✓

# Day 3 Feedback - Value Added Course on "Reconnoitre C Programming"(14.02.2024)

39 Responses

00:37 Average time to complete

Active Status

1. The objective of the day 1 value added course was met.

|                   |    |
|-------------------|----|
| Strongly Agree    | 14 |
| Agree             | 23 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |



2. The program sequence was well planned.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 19 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |





3. The lectures were clear and easy to understand.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 19 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 0  |



4. The instructors encouraged the interaction.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 18 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



5. The information presented in this VAC was highly beneficial.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 18 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



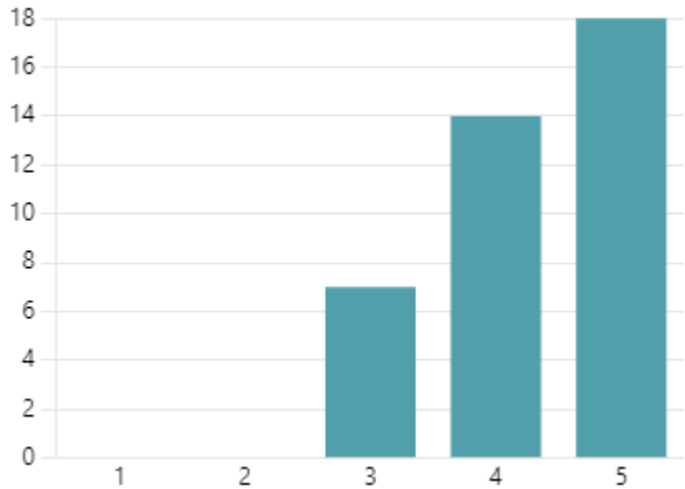
6. Well organized VAC course.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 18 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



### 7. Overall Rating

**4.28**  
Average Rating



### 8. Any comments?

**37**  
Responses

Latest Responses

"Good "

"well understanding"

"good"

[Update](#)

21 respondents (54%) answered **Good** for this question.

Awesome understandable E  
 Good teaching Interesting **Good** useful  
 day Nil No com  
 logical operators learned clearly Good se  
 new details

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 VAC LOOTABINATOR  
 [B. H. RAM BANESH]  
 OP-77



# Day 4 Feedback - Value Added Course on "Reconnoitre C Programming" (15.02.2024)

40 Responses

00:28 Average time to complete

Active Status

1. The objective of the day 1 value added course was met.

|                   |    |
|-------------------|----|
| Strongly Agree    | 21 |
| Agree             | 18 |
| Neutral           | 1  |
| Disagree          | 0  |
| Strongly disagree | 0  |



2. The program sequence was well planned.

|                   |    |
|-------------------|----|
| Strongly Agree    | 20 |
| Agree             | 17 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 0  |



3. The lectures were clear and easy to understand.

|                                                         |    |
|---------------------------------------------------------|----|
| <span style="color: blue;">●</span> Strongly Agree      | 20 |
| <span style="color: orange;">●</span> Agree             | 18 |
| <span style="color: green;">●</span> Neutral            | 2  |
| <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      | 20 |
| <span style="color: orange;">●</span> Agree             | 18 |
| <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             | 18 |
| <span style="color: green;">●</span> Neutral            | 2  |
| <span style="color: red;">●</span> Disagree             | 0  |
| <span style="color: purple;">●</span> Strongly disagree | 1  |



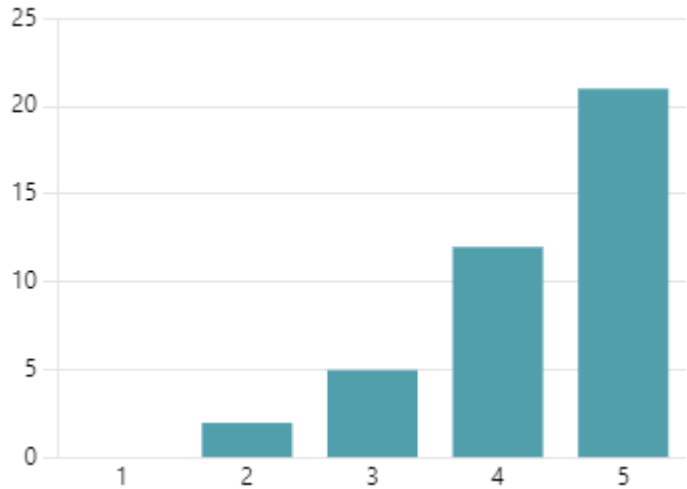
6. Well organized VAC course.

|                                                         |    |
|---------------------------------------------------------|----|
| <span style="color: blue;">●</span> Strongly Agree      | 19 |
| <span style="color: orange;">●</span> Agree             | 19 |
| <span style="color: green;">●</span> Neutral            | 2  |
| <span style="color: red;">●</span> Disagree             | 0  |
| <span style="color: purple;">●</span> Strongly disagree | 0  |



### 7. Overall Rating

4.30  
Average Rating



### 8. Any comments?

38  
Responses

Latest Responses

"Interesting! "

"NO COMMENTS"

"Good "

[Update](#)

23 respondents (57%) answered **Best** for this question.

**COMMENTS** new concepts understanda  
 learning experience **Best** interest  
 No comments easy good ses  
**Awesome** Good teaching C programmin  
 lectures were clear

*[Handwritten signature]*  
 VAC L00701V020Y  
 [B-2-11M 30NE17]  
 0P-27

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 HSD

# Day 5 Feedback - Value Added Course on "Reconnoitre C Programming" (16.02.2024)

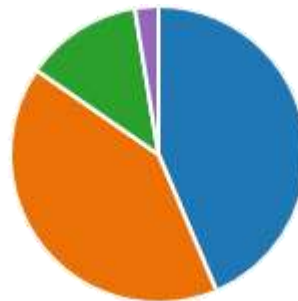
39 Responses

00:27 Average time to complete

Active Status

1. The objective of the day 1 value added course was met.

|                   |    |
|-------------------|----|
| Strongly Agree    | 17 |
| Agree             | 16 |
| Neutral           | 5  |
| Disagree          | 0  |
| Strongly disagree | 1  |



2. The program sequence was well planned.

|                   |    |
|-------------------|----|
| Strongly Agree    | 19 |
| Agree             | 14 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 2  |



## 3. The lectures were clear and easy to understand.

|                   |    |
|-------------------|----|
| Strongly Agree    | 20 |
| Agree             | 14 |
| Neutral           | 3  |
| Disagree          | 0  |
| Strongly disagree | 2  |



## 4. The instructors encouraged the interaction.

|                   |    |
|-------------------|----|
| Strongly Agree    | 20 |
| Agree             | 13 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 2  |



## 5. The information presented in this VAC was highly beneficial.

|                   |    |
|-------------------|----|
| Strongly Agree    | 20 |
| Agree             | 13 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 2  |



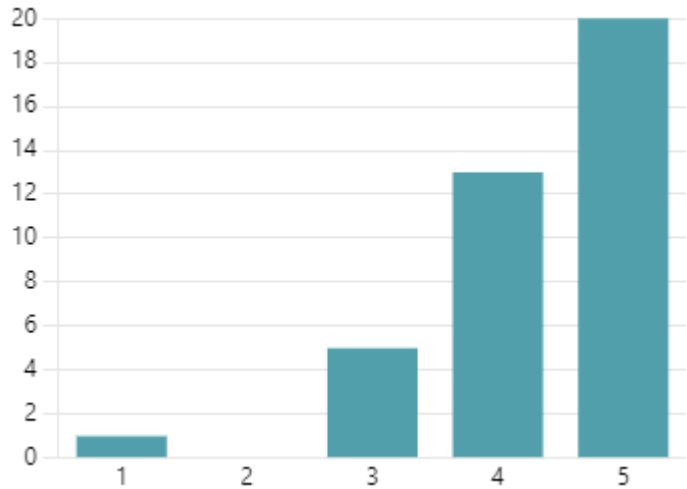
## 6. Well organized VAC course.

|                   |    |
|-------------------|----|
| Strongly Agree    | 18 |
| Agree             | 15 |
| Neutral           | 4  |
| Disagree          | 0  |
| Strongly disagree | 2  |



### 7. Overall Rating

4.31  
Average Rating



### 8. Any comments?

37  
Responses

#### Latest Responses

- "Usefull"
- "Good "
- "super"

[Update](#)

20 respondents (51%) answered **Good** for this question.



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 VDC LODCHINATOR  
 [G. 2024 03/18/24]  
 09-11





# Day 6 Feedback - Value Added Course on "Reconnoitre C Programming" (17.02.2024)

37 Responses

00:28 Average time to complete

Active Status

1. The objective of the day 1 value added course was met.

|                   |    |
|-------------------|----|
| Strongly Agree    | 21 |
| Agree             | 14 |
| Neutral           | 1  |
| Disagree          | 0  |
| Strongly disagree | 1  |



2. The program sequence was well planned.

|                   |    |
|-------------------|----|
| Strongly Agree    | 20 |
| Agree             | 15 |
| Neutral           | 1  |
| Disagree          | 0  |
| Strongly disagree | 1  |



3. The lectures were clear and easy to understand.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 23 |
| ● Agree             | 12 |
| ● Neutral           | 1  |
| ● Disagree          | 0  |
| ● Strongly disagree | 1  |



4. The instructors encouraged the interaction.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 22 |
| ● Agree             | 11 |
| ● Neutral           | 3  |
| ● Disagree          | 0  |
| ● Strongly disagree | 1  |



5. The information presented in this VAC was highly beneficial.

|                     |    |
|---------------------|----|
| ● Strongly Agree    | 23 |
| ● Agree             | 10 |
| ● Neutral           | 3  |
| ● Disagree          | 0  |
| ● Strongly disagree | 1  |



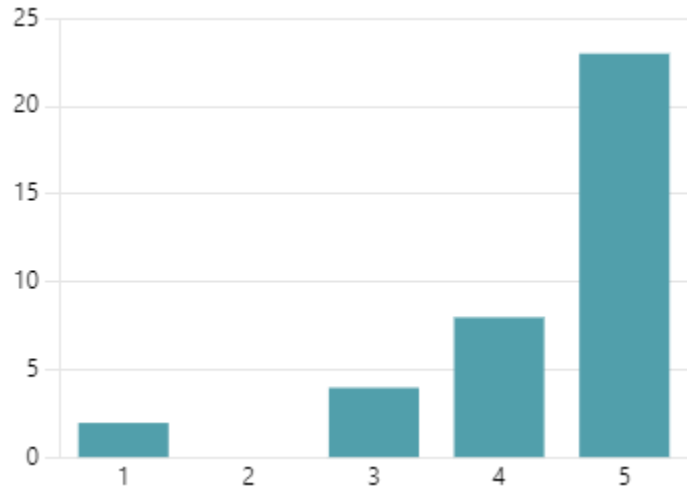
### 6. Well organized VAC course.

|                   |    |
|-------------------|----|
| Strongly Agree    | 19 |
| Agree             | 15 |
| Neutral           | 2  |
| Disagree          | 0  |
| Strongly disagree | 1  |



### 7. Overall Rating

**4.35**  
Average Rating



8. Any comments?

37  
Responses

Latest Responses

"Good"

"Well understood "

"good"

23 respondents (62%) answered **good** for this question.



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 VAC COORDINATOR  
 [G-22-ADM GANESH]  
 DP-27

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 HSD

## DEPARTMENT OF INFORMATION TECHNOLOGY

### VALUE-ADDED COURSE

### REPORT

#### Value Added Course on "Reconnoitre C Programming" (12.02.2024 to 17.02.2024)

**Day 1: 12.02.2024**

#### Morning Session:

During the morning session, students learned about various topics, including the parts of a "C program" such as:

- Literals Vs. constants Vs. variables;
- Data types; Structured programming language;
- Constructs; Operators, and we practiced programs related to the above topics.

#### Afternoon Session:

In the afternoon session, students delved into simple programs for determining:

- Whether numbers are odd or even.
- bitwise operators,
- Modulo operators, and a few problem-related programs.

**Day 2: 13.02.2024**

#### Morning Session:

The morning session covered the switch statement, loop constructs like infinite loops, do-while, while, and for loop constructs, as well as Lvalue/Rvalue and how to handle errors on Lvalue.

#### Afternoon Session:

In the afternoon, students were practiced programs on printing the number of days in a month, the Multiplication table, the number of digits, the sum of digits, and reversing a number.

### **Day 3: 14.02.2024**

#### **Morning Session:**

This morning, the student learned about:

- factors, prime numbers,
- factorial,
- Armstrong numbers,
- Strong numbers, the generation of all of them, and optimization.

#### **Afternoon Session:**

In the afternoon, students practiced programs related to the morning session's topics and had a discussion about placements.

### **Day 4: 15.02.2024**

#### **Morning Session:**

The morning session focused on practical sessions about functions, converting programs into functions, and practicing a few programs.

#### **Afternoon Session:**

In the afternoon session, students learned about the memory map of an executable file and storage class.

### **Day 5: 16.02.2024**

#### **Morning Session:**

During the morning session, students learned about arrays and pointers, including their performance.

#### **Afternoon Session:**

In the afternoon, students tackled problems based on arrays, consisting of five easy problems, three average level problems, and one difficult level problem.

### **Day 6: 17.02.2024**

#### **Morning Session:**

The forenoon session included a detailed discussion on array and pointer concepts, with students solving more problematic programs and learning how to solve errors effectively.

#### **Afternoon Session:**

In the afternoon, there was a discussion about the team project and how to document it.

**Additional problems covered:**

This value-added course on 'Introduction To C' proved useful to all students, enhancing their confidence in solving problems based on the C-Programming Language. They gained knowledge about placements, understanding the expectations of interviewers and how to build projects. The sessions conducted by Mr. Sridhar Arumugasamy of With You, Coimbatore was interesting and made learning the concepts in the C-Programming Language easier. He helped students strengthen their basics in the language. Additionally, students learned about various software and the performance of compilers, as well as how to handle them. The college is thanked for providing this great opportunity to students.

  
15/03/24  
VAC Coordinator

  
HOD/IT

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Value Added Course on "Reconnoitre C Programming"**  
(12.02.2024 to 17.02.2024)

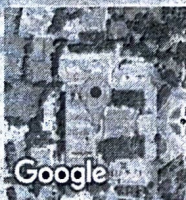
**GROUP PHOTOS**

Department : Information Technology

Regulation : R 2021

Year : II-IT A & B

Semester : IV



Tennamanallur, Tamil Nadu, India  
MXF7+6V6, Tennamanallur, Tamil Nadu 625701, India  
Lat 9.673007°  
Long 77.964736°  
15/02/24 10:48 AM GMT +05:30

GPS Map Camera

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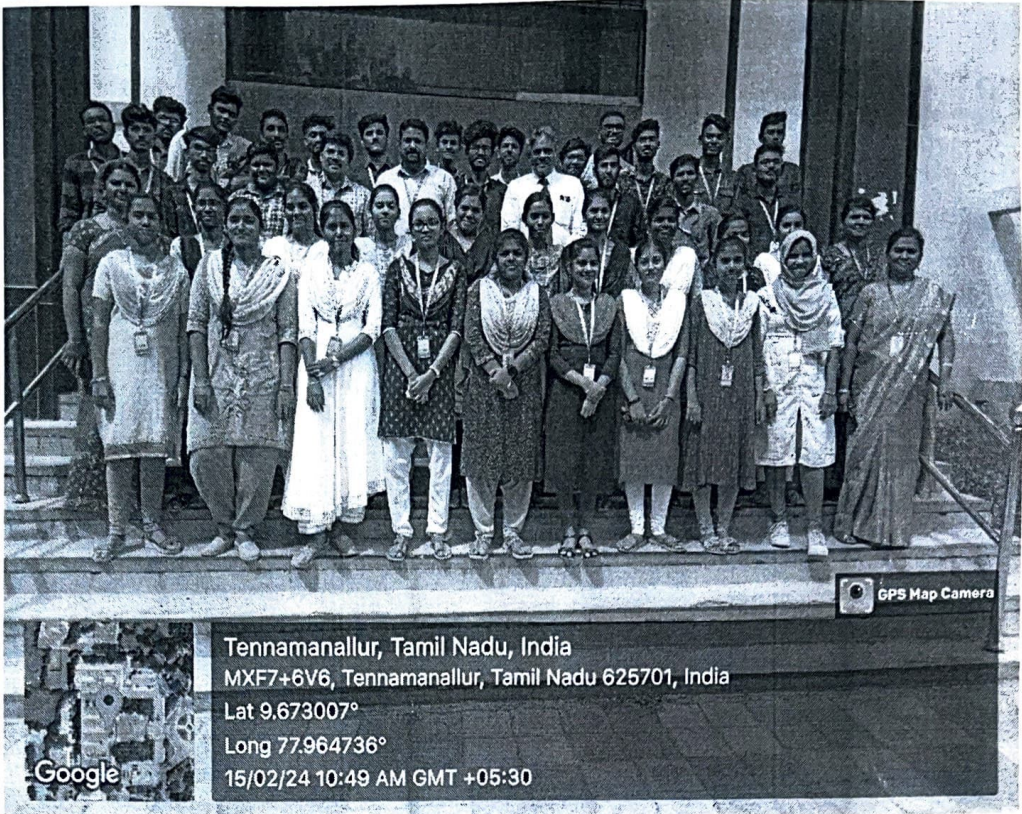
VAC COORDINATOR

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VAC Coordinator

[B. J. RAM BANESH]

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HoD / IT