

A Micro Project Report

on

Problem Solving using C Language

Submitted by

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)

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AICTE, New Delhi, Permanently affiliated to JNTU Kakinada, Approved by AICTE,
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Palnadu(Dt.), Andhra Pradesh, India**

2024-2025

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that **Gollapalli Yamini Thripura Sundari** , **Roll No: 23471A0586**,
a Second Year Student of the Department of Computer Science and Engineering,
has completed the Micro Project Satisfactorily in “ Problem Solving using C
Language” for the Academic Year 2024-2025..

Project Co-Ordinator

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1.	Emcet ranking system (highest score student get first,if more then one student get equal score then check the subject priority here don' t change student order.)

Emcet ranking system

Aim:

\\Emcet ranking system(highest score student get first,if more then one student get equal score then check the subject priority)here don' t change student order.

```
#include <stdio.h>

struct Student{

    char name[50];

    int score;

    int physics,chemistry,mathematics;

};

void printStudents(struct Student students[],int n){

    printf("Name\tScore\tPhysics\tChemistry\tMathematics\tRank\n");

    for(int i = 0;i < n;i++){

        printf("%s\t%d\t%d\t%d\t%d\t%d\n",

            students[i].name,

            students[i].score,

            students[i].physics,

            students[i].chemistry,

            students[i].mathematics,

            i + 1);

    }
```

```
    }  
}  
  
void rankStudents(struct Student students[], int n) {  
    for (int i = 0; i < n - 1; i++) {  
        for (int j = i + 1; j < n; j++) {  
            if (students[i].score < students[j].score) {  
                struct Student temp = students[i];  
                students[i] = students[j];  
                students[j] = temp;  
            }  
  
            // If scores are equal, prioritize subjects  
            else if (students[i].score == students[j].score) {  
                if (students[i].physics < students[j].physics) {  
                    struct Student temp = students[i];  
                    students[i] = students[j];  
                    students[j] = temp;  
                }  
  
                else if (students[i].physics == students[j].physics) {  
                    if (students[i].chemistry < students[j].chemistry) {  
                        struct Student temp = students[i];  
                        students[i] = students[j];  
                        students[j] = temp;  
                    }  
  
                    else if (students[i].chemistry == students[j].chemistry) {
```

```
        if (students[i].mathematics < students[j].mathematics) {  
            struct Student temp = students[i];  
            students[i] = students[j];  
            students[j] = temp;  
        }  
    }  
}  
  
}  
  
}  
  
}  
  
}  
  
int main() {  
  
    int n;  
  
    printf("Enter number of students: ");  
  
    scanf("%d", &n);  
  
    struct Student students[n];  
  
    for (int i = 0; i < n; i++) {  
  
        printf("Enter student %d name: ", i + 1);  
  
        scanf("%s", students[i].name);  
  
        printf("Enter student %d score: ", i + 1);  
  
        scanf("%d", &students[i].score);  
  
        printf("Enter student %d physics score: ", i + 1);  
  
        scanf("%d", &students[i].physics);  
  
        printf("Enter student %d chemistry score: ", i + 1);
```

```
        scanf("%d",&students[i].chemistry);

        printf("Enter student %d mathematics score:",i + 1);

        scanf("%d",&students[i].mathematics);
    }

    rankStudents(students,n);

    printStudents(students,n);

    return 0;
}
```

OUTPUT:

Enter number of students: 2

Enter student 1 name: A

Enter student 1 score: 45

Enter student 1 physics score: 23

Enter student 1 chemistry score: 35

Enter student 1 mathematics score: 45

Enter student 2 name: B

Enter student 2 score: 30

Enter student 2 physics score: 46

Enter student 2 chemistry score: 75

Enter student 2 mathematics score: 45

Name	Score	Physics	Chemistry	Mathematics	Rank
A	45	23	35	45	1
B	30	46	75	45	2

```
Enter number of students: 2
Enter student 1 name: kavya
Enter student 1 score: 45
Enter student 1 physics score: 12
Enter student 1 chemistry score: 10
Enter student 1 mathematics score: 23
Enter student 2 name: Radha
Enter student 2 score: 60
Enter student 2 physics score: 20
Enter student 2 chemistry score: 28
Enter student 2 mathematics score: 12
Name      Score  Physics Chemistry  Mathematics  Rank
Radha     60     20      28       12         1
kavya     45     12      10       23         2
```