

Name :CRESEL FERNANDES ROLL NO:16 SE IT BATCH: A

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#include<stdio.h>
#include<conio.h>

struct Student
{
    char name[30];
    int rollNumber;
    int marks[5];
    int totalMarks;
    float percentage;
}

(struct Student students[],int numberStudents,int rollNumber)
{
    int i,m;
    for(i=0;i<numberStudents;i++)
    {
        if(rollNumber==students[i].rollNumber){
            printf("The student's name: %s\n",students[i].name);
            printf("The student's roll number:
%d\n",students[i].rollNumber);
            printf("The student's marks\n");
            for(m=0;m<5;m++){
                printf("%d ",students[i].marks[m]);
            }
            printf("\nThe student's total marks:
%d\n",students[i].totalMarks);
            printf("The student's percentage:
%.2f\n",students[i].percentage);
            printf("\n");
            break;
        }
    }
}

(struct Student students[],int numberStudents)
{
    int i,j,m;
    for (i = 0; i < numberStudents - 1; i++)
    {
        for (j = 0; j < numberStudents - i - 1; j++){
            if (students[j].totalMarks > students[j + 1].totalMarks)
            {
                // swap temp and elements[i]
                struct Student temp = students[j];
                students[j] = students[j + 1];
                students[j + 1] = temp;
            }
        }
    }

    for(i=0;i<numberStudents;i++){
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        printf("The student's name: %s\n",students[i].name);
        printf("The student's roll number: %d\n",students[i].rollNumber);
        printf("The student's marks\n");
        for(m=0;m<5;m++){
            printf("%d ",students[i].marks[m]);
        }
        printf("\nThe student's total marks: %d\n",students[i].totalMarks);
        printf("The student's percentage: %.2f\n",students[i].percentage);
        printf("\n");
    }
}

```

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void main()
{
    struct Student students[100];
    int numberStudents,i,m;
    int rollNumber;
    float percentage1;
    float percentage2;
    printf("Enter the number of students: ");
    scanf("%d",&numberStudents);

    for(i=0;i<numberStudents;i++){
        fflush(stdin);
        printf("Enter the student's name: ");
        gets(students[i].name);
        printf("Enter the student's roll number: ");
        scanf("%d",&students[i].rollNumber);
        for(m=0;m<5;m++){
            printf("Enter the student's mark %d: ",(m+1));
            scanf("%d",&students[i].marks[m]);
        }
        printf("\n");
    }
    findTotalMarksPercentageStudents(students,numberStudents);
    printf("Enter the student's roll number to search: ");
    scanf("%d",&rollNumber);
    displayDetailsStudent(students,numberStudents,rollNumber);

    printf("Enter the student's percentage 1 to search: ");
    scanf("%f",&percentage1);
    printf("Enter the student's percentage 2 to search: ");
    scanf("%f",&percentage2);

    displayDetailsSudentsPercentageRange(students,numberStudents,percentage1,percentage
2);

    printf("\nSort the array in ascending order of marks.\n");
    sortArrayInAscendingOrderMark(students,numberStudents);
}

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        printf("\n");  
        getch();  
        getch();  
    }
```