

WAP to sort the students based on their total_mark

```
#include<stdio.h>
#include<string.h>
#define noOfStudents 2 // change the number of students here
struct Student{
    int roll_no;
    char name[90];
    char dob[20];
    float total_mark;
};

struct Student students[noOfStudents];

void getValues(){
    for(int i=0;i<noOfStudents;i++){
        printf("Student - %d",i+1);
        printf("\nEnter the student roll-no : ");
        scanf("%d",&students[i].roll_no);
        printf("\nEnter the student name : ");
        scanf("%s",&students[i].name);
        printf("\nEnter the student date of birth :: ");
        scanf("%s",&students[i].dob);
        printf("\nEnter the student total_marks : ");
        scanf("%f",&students[i].total_mark);
    }
}

void sortByMarks(){
    for(int i=0;i<noOfStudents;i++){
        for(int j=i+1;j<noOfStudents;j++){
            if(students[i].total_mark > students[j].total_mark){
                struct Student temp = students[i];
                students[i] = students[j];
                students[j] = temp;
            }
        }
    }
}

void printValues(){
    for(int i=0;i<noOfStudents;i++){
        printf("\nStudent - %d\n", i + 1);
        printf("Roll No: %d\n", students[i].roll_no);
        printf("Name: %s\n", students[i].name);
        printf("Date of Birth: %s\n", students[i].dob);
        printf("Total Marks: %.2f\n", students[i].total_mark);
    }
}

int main(){
    // method to get the values of students from the user
    getValues();
    // method to sort the students by marks
    sortByMarks();
    //print the values of structure
    printValues();
}
```

```
}  
    return 0;  
}
```

The screenshot displays the Programiz C Online Compiler interface. The top navigation bar includes the Programiz logo, a Fiverr advertisement, and a 'Find a freelancer' button. Below the navigation bar, the compiler interface is divided into three main sections: a file explorer on the left, a code editor in the center, and an output console on the right.

The file explorer on the left shows a single file named 'main.c'. The code editor in the center contains the following C code:

```
1 // sort the students based on their total_mark  
2 #include<stdio.h>  
3 #include<string.h>  
4 #define noOfStudents 2 // change the number of students here  
5 struct Student{  
6     int roll_no;  
7     char name[90];  
8     char dob[20];  
9     float total_mark;  
10 };  
11  
12 struct Student students[noOfStudents];  
13  
14  
15 void getValues(){  
16  
17     for(int i=0;i<noOfStudents;i++){  
18         printf("Student - %d",i+1);  
19         printf("\nEnter the student roll-no : ");  
20         scanf("%d",&students[i].roll_no);  
21         printf("\nEnter the student name : ");  
22         scanf("%s",&students[i].name);  
23         printf("\nEnter the student date of birth :: ");  
24         scanf("%s",&students[i].dob);  
25         printf("\nEnter the student total_marks : ");  
26         scanf("%f",&students[i].total_mark);  
27     }  
28  
29 }  
30
```

The output console on the right shows the execution results, including the program's output and the user's input for two students:

```
//tmp/oLiYwYhycR.o  
Student - 1  
Enter the student roll-no : 2  
Enter the student name : raj  
Enter the student date of birth :: 2/03/2023  
Enter the student total_marks : 430  
Student - 2  
Enter the student roll-no : 4  
Enter the student name : theju  
Enter the student date of birth :: 5/4/2022  
Enter the student total_marks : 560  
Student - 1  
Roll No: 2  
Name: raj  
Date of Birth: 2/03/2023  
Total Marks: 430.00  
  
Student - 2  
Roll No: 4  
Name: theju  
Date of Birth: 5/4/2022  
Total Marks: 560.00
```