## WAP to sort the students based on their total_mark

```c
#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();
```

```c
        return 0;
}
```

**Programiz**
C Online Compiler

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main.c

Save  Run

Output

```c
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
```

```
/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
```