

## WAP to store Student records as Structures and Sort them by Name

```
#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 sortByName(){
    for(int i=0;i<noOfStudents;i++){
        for(int j=i+1;j<noOfStudents;j++){
            if(strcmp(students[i].name,students[j].name) > 0){
                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 name
    sortByName();
    //print the values of structure
    printValues();
}
```

```

    return 0;
}

```

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C program to store Student records as Struc...

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main.c

Save

Run

Output

Clear

```

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5 #define noOfStudents 2 // change the number of students here
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11 };
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13 struct Student students[noOfStudents];
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16 void getValues(){
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18     for(int i=0;i<noOfStudents;i++){
19         printf("Student - %d",i+1);
20         printf("\nEnter the student roll-no : ");
21         scanf("%d",&students[i].roll_no);
22         printf("\nEnter the student name : ");
23         scanf("%s",&students[i].name);
24         printf("\nEnter the student date of birth :: ");
25         scanf("%s",&students[i].dob);
26         printf("\nEnter the student total_marks : ");
27         scanf("%f",&students[i].total_mark);
28     }
29
30 }

```

/tmp/oLiYwWhycR.o

Student - 1

Enter the student roll-no : 1

Enter the student name : Rishu

Enter the student date of birth :: 3/4/2023

Enter the student total\_marks : 340

Student - 2

Enter the student roll-no : 2

Enter the student name : Malai

Enter the student date of birth :: 23/07/2005

Enter the student total\_marks : 399

Student - 1

Roll No: 2

Name: Malai

Date of Birth: 23/07/2005

Total Marks: 399.00

Student - 2

Roll No: 1

Name: Rishu

Date of Birth: 3/4/2023

Total Marks: 340.00