

ASSIGNMENT 3

Part A

CODE :

```
//Merwin Pinto
//202100102
//Div D
//print The rank based on the marks obtained by the students .
// Type : Bubble sort
#include<stdio.h>
struct student
{
    char name[20];
    int srn;
    int total_marks;
}s[10],t;

int bubble(struct student s[10],int n);

int main()
{
    int i,j,n;
    printf("Enter no of students :\n");
    scanf("%d",&n);
    printf("Enter info of student ( srn , name , marks ):\n");
    for(i=0;i<n;i++)
    {
        printf("Student %d information \n",i+1);
        printf("Student srn :");
        scanf("%d",&s[i].srn);
        printf("Student name :");
        scanf("%s",&s[i].name);
        printf("Student total_marks :");
    }
}
```

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scanf("%d",&s[i].total_marks);
printf("\n\n");
}

bubble(s,n);

printf("Info entered for Highest to lowest \n");
printf("=====\\n");
printf("\n SRN \t\t Name \t\t Total marks \n");
printf("=====\\n");
for(i=0;i<n;i++)
{
    printf("%d \t ",s[i].srn);
    printf("%s \t",s[i].name);
    printf("%d \n",s[i].total_marks);
    printf("\n \n");
}
return 0;
}

int bubble(struct student s[10],int n)
{
    int i,j;
    for(i=0;i<n;i++)
    {
        for(j=0;j<n-1;j++)
        {

            if(s[j].total_marks < s[j+1].total_marks)
            {
                t=s[j];

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    s[j]=s[j+1];
    s[j+1]=t;
}

}

}

```

OUTPUT

```

Enter no of students : 3
Enter info of student ( srn , name , marks ) :
Student 1 information
Student srn :202100102
Student name :merwin
Student total_marks :100

Student 2 information
Student srn :202100103
Student name :yash_k
Student total_marks :98

Student 3 information
Student srn :202100602
Student name :Wayne_p
Student total_marks :99

Info entered for Highest to lowest
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SRN           Name        Total marks
-----
202100102     merwin     100
202100602     Wayne_p    99
202100103     yash_k    98

```