

**ASSIGNMENT 3**  
**Part B**  
**Selection sort**

**CODE :**

```
//Merwin Pinto
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//Div C
//print The rank based on the marks obtained by the students
//Selection sort
#include<stdio.h>

struct student
{
    char name[20];
    int srn;
    int total_marks;
}s[10],t;

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

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

```
select(s,n);
```

```
printf("Info entered for lowest to highest marks \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\t ",s[i].srn);  
    printf("%s \t\t",s[i].name);  
    printf("%d \n",s[i].total_marks);  
    printf("\n \n");  
}  
return 0;  
}
```

```
void select(struct student s[10],int n)
```

```
{  
    int i,j;  
    for(i=0;i<n-1;i++)  
    {
```

```
        int position;  
        position=i;
```

```
        for(j=i+1;j<n;j++)  
        {
```

```

        if(s[j].total_marks < s[position].total_marks)
        {

            position = j;

        }

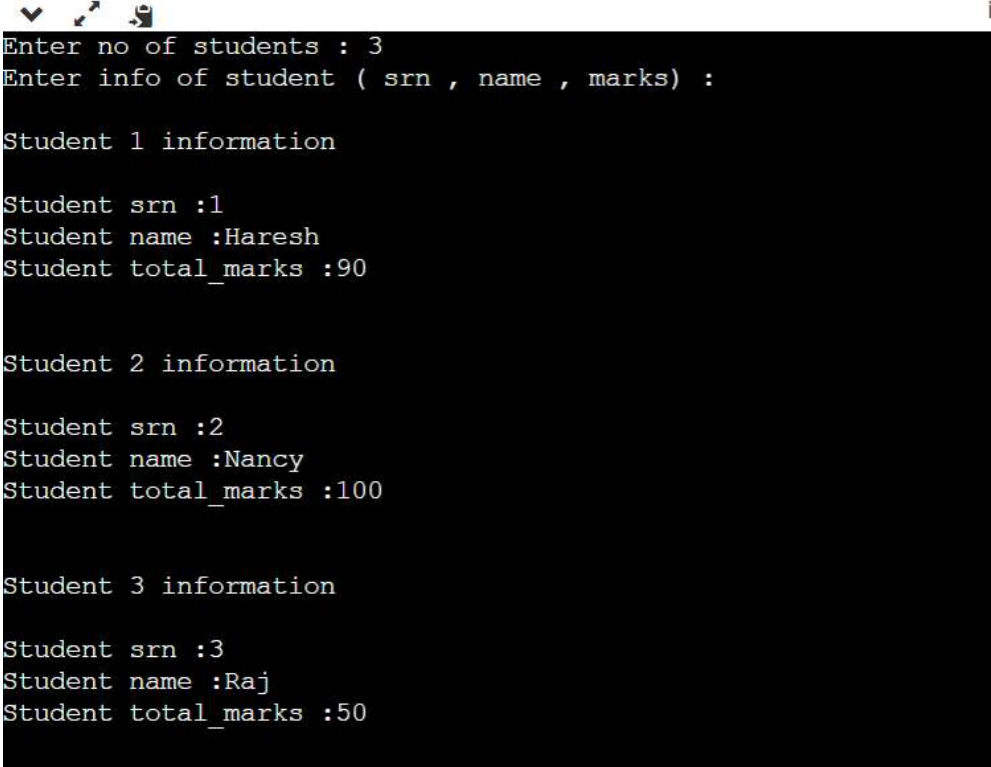
        t=s[i];
        s[i]=s[position];
        s[position]=t;
    }

}

}

```

#### OUTPUT :



```

Enter no of students : 3
Enter info of student ( srn , name , marks) :

Student 1 information

Student srn :1
Student name :Haresh
Student total_marks :90

Student 2 information

Student srn :2
Student name :Nancy
Student total_marks :100

Student 3 information

Student srn :3
Student name :Raj
Student total_marks :50

```

Info entered for lowest to highest marks

SRN	Name	Total marks
3	Raj	50
1	Haresh	90
2	Nancy	100

...Program finished with exit code 0  
Press ENTER to exit console.