

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++)
{

```

```

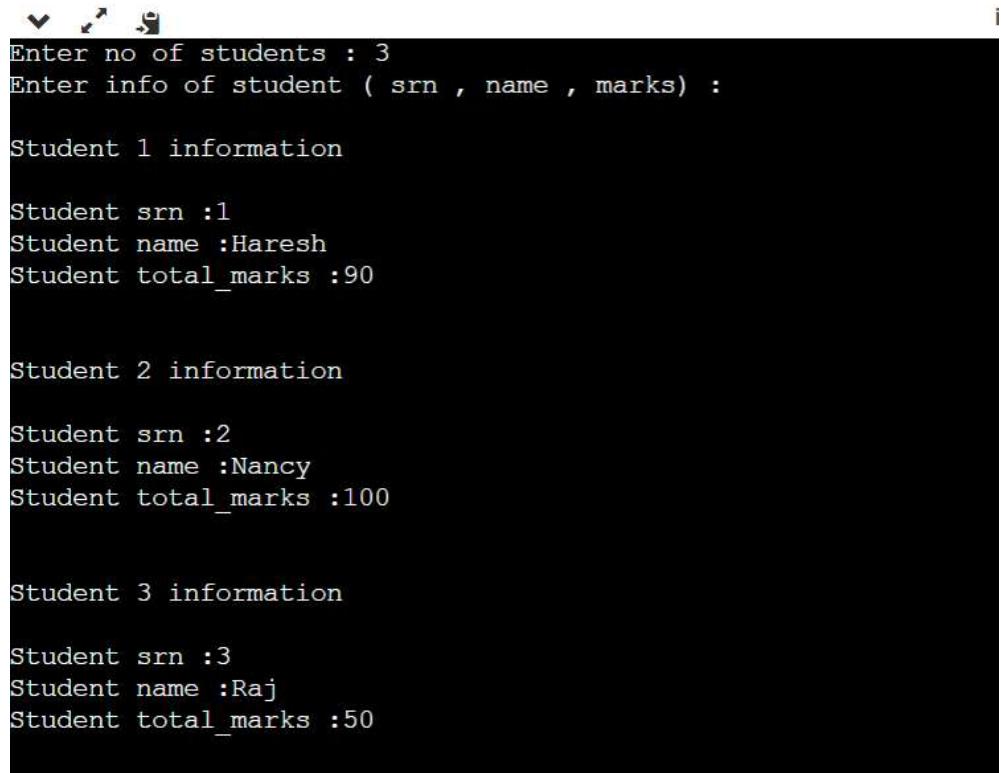
if(s[j].total_marks < s[position].total_marks)
{
    position = j;
}

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.
```