```
Assignment no:5
Roll no:07
a=[]
x=5
n = int(input("Enter number of students whose marks are to be displayed
: "))
for i in range(0, n):
  m = int(input())
  a.append(m)
def selection_sort():
  for i in range(0,n):
    min=i
    for j in range(i+1,n):
       if (a[j]<a[min]):
         min=j
         a[i],a[min]=a[min],a[i]
  print("Marks of students after performing Selection Sort on the list : ")
  for i in range(len(a)):
    print(a[i])
def bubble sort():
  for i in range(0,n-1):
    for j in range(0,n-i-1):
       if (a[j]>a[j+1]):
         a[j],a[j+1]=a[j+1],a[j]
```

```
print("Marks of students after performing Bubble Sort on the list :")
  for i in range(len(a)):
    print(a[i])
def topfive():
  I=[]
  for i in range(0,x):
    max1=0
    for j in range(len(a)):
       if a[j]>max1:
         max1=a[j]
    a.remove(max1)
    l.append(max1)
  print("top five marks are:",I)
print("The marks of students are : ")
print(a)
selection_sort()
bubble_sort()
topfive()
print("enter choice:\n1.selectionsort\n2.bubblesort:")
ch=int(input())
if ch==1:
selection_sort():
elif ch==2:
bubble sort()
elif ch==3:
```

```
topfive()
else:
print("Invalid choice")
```

OUTPUT:

```
Enter No of Student: 7
Enter marks for student: 96.89
Enter marks for student: 91.64
Enter marks for student: 78.50
Enter marks for student: 71.62
Enter marks for student: 55.32
Enter marks for student: 45.87
Enter marks for student: 87.04
Selection sort
45.87
55.32
71.62
78.5
87.04
91.64
96.89
Bubble sort
45.87
55.32
71.62
78.5
87.04
91.64
96.89
Top five scores are [96.89, 91.64, 87.04, 78.5, 71.62]
...Program finished with exit code 0
Press ENTER to exit console.
```