

```

def Selection_Sort(Score_list):
    for i in range(len(Score_list)-1):
        min_score=i
        for j in range(i+1,len(Score_list)):
            if Score_list[min_score]>Score_list[j]:
                min_score=j
        Score_list[i],Score_list[min_score]=Score_list[min_score],Score_list[i]

def Bubble_sort(Score_list):
    for i in range(len(Score_list)):
        for j in range(len(Score_list)-1):
            if Score_list[j]>Score_list[j+1]:
                Score_list[j],Score_list[j+1]=Score_list[j+1],Score_list[j]

def reverse_sort(Score_list):
    for i in range(len(Score_list)):
        min_score=i
        for j in range(i+1,len(Score_list)):
            Score_list[j]>min_score
            min_score=j
        Score_list[i],Score_list[min_score]=Score_list[min_score],Score_list[i]

def top_five(Score_list):
    Selection_Sort(Score_list)
    reverse_sort(Score_list)

    temp=[]

```

```
for i in range(5):  
    temp=Score_list[i]  
    print(temp)
```

```
#main  
n=int(input("Enter the no. of students present in the class:"))  
print("Enter the scores:(in float point)")  
Score_list=[]  
for i in range(n):  
    data=float(input())  
    Score_list.append(data)  
print("Unsorted Score:",Score_list)  
while(1):  
  
    print("\nEnter \n 1.Selection Sort \n 2.Bubble Sort \n 3.Display Top Five Scores")  
    option=input("Enter option:")  
  
    if option=="1":  
        Selection_Sort(Score_list)  
        print("Sorted Scores:",Score_list)  
  
    elif option=="2":
```

```
Bubble_sort(Score_list)

print("Sorted Scores:",Score_list)

elif option=="3":

    Selection_Sort(Score_list)

    print("Sorted Scores:",Score_list)

    print("Top Five Scores are:")

    top_five(Score_list)
```

OUTPUT

[?2004l

Enter the no. of students present in the class:5]

Enter the scores:(in float point)

50

60

10

55

80

Unsorted Score: [50.0, 60.0, 10.0, 55.0, 80.0]

Enter

1.Selection Sort

2.Bubble Sort

3.Display Top Five Scores

Enter option:1

Sorted Scores: [10.0, 50.0, 55.0, 60.0, 80.0]

Enter

1.Selection Sort

2.Bubble Sort

3.Display Top Five Scores

Enter option:2

Sorted Scores: [10.0, 50.0, 55.0, 60.0, 80.0]

Enter

1.Selection Sort

2.Bubble Sort

3.Display Top Five Scores

Enter option:3

Sorted Scores: [10.0, 50.0, 55.0, 60.0, 80.0]

Top Five Scores are:

80.0

60.0

55.0

50.0

10.0

Enter

1.Selection Sort

2.Bubble Sort

3.Display Top Five Scores

Enter option: