## Code:

```
# function for selection sort
def selection sort(arr,n):
    for i in range (n-1):
        mina=i
        for j in range (i+1,n):
            if arr[j] < arr[mina]:</pre>
                mina=j
        (arr[i], arr[mina]) = (arr[mina], arr[i])
    print("Marks after sorting", arr)
# function for bubble sort
def bubble sort(arr,n):
    for i in range(n):
        for j in range (0, n-i-1):
            if arr[j]>arr[j+1]:
                 (arr[j], arr[j+1]) = (arr[j+1], arr[j])
    print("Marks after sorting", arr)
# function to print top 5 scores
def printarr(arr,n):
    print("top 5 scores are:")
    for i in range (0, 5):
        print(arr[n - i - 1], end=" ")
print("1.Selection Sort")
print("2.Bubble Sort")
c=int(input("Select your choice:"))
if c==1 or c==2:
    n=int (input("enter the no. of students: "))
    arr=[]
    for i in range (n):
        a=float(input("enter the percentage:"))
        arr.append(a)
if c==1:
    print("Marks before sorting", arr)
```

```
selection sort(arr,n)
    printarr(arr,n)
elif c==2:
    print("Marks before sorting", arr)
    bubble sort(arr,n)
    printarr(arr, n)
else:
    print("Invalid Choice")
Output:
1. Selection Sort
2.Bubble Sort
Select your choice:1
enter the no. of students: 7
enter the percentage:58.69
enter the percentage:89
enter the percentage: 65.5
enter the percentage:36.8
enter the percentage:98
enter the percentage:74
enter the percentage:49
Marks before sorting [58.69, 89.0, 65.5, 36.8, 98.0,
74.0, 49.01
Marks after sorting [36.8, 49.0, 58.69, 65.5, 74.0,
89.0, 98.0]
top 5 scores are:
98.0 89.0 74.0 65.5 58.69
```

## Output:

```
1. Selection Sort
2.Bubble Sort
Select your choice:2
enter the no. of students: 7
enter the percentage:58
enter the percentage:89.5
enter the percentage: 77.89
enter the percentage:55.99
enter the percentage:89
enter the percentage:75
enter the percentage:91
Marks before sorting [58.0, 89.5, 77.89, 55.99, 89.0,
75.0, 91.0]
Marks after sorting [55.99, 58.0, 75.0, 77.89, 89.0,
89.5, 91.0]
top 5 scores are:
91.0 89.5 89.0 77.89 75.0
```

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