marks=[]

n = int(input("Enter number of students whose marks are to be displayed : "))

print("Enter marks for",n,"students : ")

for i in range(0, n):

ele = float(input())

marks.append(ele)

print("The marks of",n,"students are : ")

print(marks)

#<--bubble sort---------------------------------------------------------------->

def Bubble\_Sort(marks):

n = len(marks)

c = 0

for i in range(n - 1):

c = c + 1

for j in range(0, n - i - 1):

if marks[j] > marks[j + 1]:

marks[j], marks[j + 1] = marks[j + 1], marks[j]

print("no of comparision is equal to :",c)

print("Marks of students after performing Bubble Sort on the list :")

for i in range(len(marks)):

print(marks[i])

Bubble\_Sort(marks)

#<---selection sort------------------------------------------------------------>

def Selection\_Sort(marks):

for i in range(len(marks)):

min\_idx = i

for j in range(i + 1, len(marks)):

if marks[min\_idx] < marks[j]:

min\_idx = j

marks[i], marks[min\_idx] = marks[min\_idx], marks[i]

print("Marks of students after performing Selection Sort on the list : ")

for i in range(len(marks)):

print(marks[i])

Selection\_Sort(marks)

#<------Top Five Marks---------------------------------------------------------->

def find\_top\_five\_marks(marks):

marks.sort(reverse=True)

top\_five\_marks = marks[:5]

return top\_five\_marks

top\_five\_marks = find\_top\_five\_marks(marks)

print("The top five marks are:", top\_five\_marks)