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# Function for Selection Sort of elements

def Selection_Sort(marks):
    for i in range(len(marks)):
        # Find the minimum element in remaining unsorted array
        min_idx = i
        for j in range(i + 1, len(marks)):
            if marks[min_idx] > marks[j]:
                min_idx = j
        # Swap the minimum element with the first element
        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])
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# Function for Bubble Sort of elements

def Bubble_Sort(marks):
    n = len(marks)
    # Traverse through all array elements
    for i in range(n - 1):
        # Last i elements are already in place
        for j in range(0, n - i - 1):
            # Traverse the array from 0 to n-i-1
            # Swap if the element found is greater than the next element
            if marks[j] > marks[j + 1]:
                marks[j], marks[j + 1] = marks[j + 1], marks[j]

    print("Marks of students after performing Bubble Sort on the list:")
    for i in range(len(marks)):
        print(marks[i])
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# Function for displaying top five marks

def top_five_marks(marks):
    print("\nTop five marks are:")

    # Reverse the list and print the top five marks
    for i in range(min(5, len(marks))):
        print(marks[-(i+1)])

# Main Program

marks = []

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

print("\nEnter marks for", n, "students (Press ENTER after every student's marks): ")
for i in range(0, n):
    ele = float(input()) # Accepting marks as floating-point numbers
    marks.append(ele)

print("\nThe marks of", n, "students are:")
print(marks)

flag = 1
while flag == 1:
    print("\n-----MENU-----")
    print("1. Selection Sort of the marks")
    print("2. Bubble Sort of the marks")
    print("3. Exit")

    ch = int(input("\nEnter your choice (from 1 to 3): "))

    if ch == 1: # Selection Sort
        Selection_Sort(marks)
        a = input("\nDo you want to display top five marks from the list (yes/no): ").lower()

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if a == 'yes':  
    top_five_marks(marks)  
else:  
    print("\nThanks for using this program!")  
    flag = 0
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elif ch == 2: # Bubble Sort  
    Bubble_Sort(marks)  
    a = input("\nDo you want to display top five marks from the list (yes/no): ").lower()  
    if a == 'yes':  
        top_five_marks(marks)  
    else:  
        print("\nThanks for using this program!")  
        flag = 0
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elif ch == 3: # Exit  
    print("\nThanks for using this program!")  
    flag = 0
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else: # Invalid Choice  
    print("\nEnter a valid choice!!")  
    print("\nThanks for using this program!")  
    flag = 0
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