Assignment . 6

def quick\_sort(arr):

if len(arr) <= 1:

return arr

pivot = arr[len(arr) // 2]

left = [x for x in arr if x < pivot]

middle = [x for x in arr if x == pivot]

right = [x for x in arr if x > pivot]

return quick\_sort(left) + middle + quick\_sort(right)

def display\_top\_five(scores):

sorted\_scores = quick\_sort(scores)

top\_five = sorted\_scores[-5:][::-1]

print("Top five scores:", top\_five)

n = int(input("Enter number of students: "))

percentages = [float(input(f"Enter percentage for student {i+1}: ")) for i in range(n)]

display\_top\_five(percentages)

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Enter number of students: 6

Enter percentage for student 1: 75.5

Enter percentage for student 2: 82.0

Enter percentage for student 3: 90.3

Enter percentage for student 4: 88.4

Enter percentage for student 5: 67.9

Enter percentage for student 6: 91.2

Top five scores: [91.2, 90.3, 88.4, 82.0, 75.5]