**Zeal College of Engineering and Research**

**Subject: DSL**

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**Group B: Practical No: 05**

**Program Statement**:

Write a Python program to store first year percentage of students in array. Write function for sorting array of floating point numbers in ascending order using

1. Selection Sort
2. Bubble sort and display top five scores.

**Code:**

#Pratical No 1 Group B

"""Storing the Percantage of Students"""

percentage = []

student = int(input("Enter the Number of student:"))

for i in range(student):

  marks = float(input("Enter the Percentage of 1st Year Student:"))

  percentage.append(marks)

print(percentage)

def bubblesort():

  for i in range(0,student-1):

    for j in range(0,student-1):

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

        percentage[j],percentage[j+1] = percentage[j+1],percentage[j]

  print("Bubble Sort is ",percentage)

  return percentage

def topper():

  top = bubblesort()

  for i in range(0,5):

    (top[::-1])

  print("Top 5 Student:",top[::-1],sep="\n")

def selectionsort():

  for i in range(len(percentage)):

    min = i

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

      if percentage[i]>percentage[j]:

        min = j

        percentage[i],percentage[min]=percentage[min],percentage[j]

  print("Selection Sort",percentage)

  return percentage

#Getting all the choices

while True:

  a = int(input("Enter your Choice:"))

  if a == 1:

    bubblesort()

  elif a == 2:

    topper()

  elif a == 3:

    selectionsort()

**Output (Screenshot):**

