**Assignment- A05**

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**Problem 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

# a) Selection Sort

# b) Bubble sort and display top five scores.

# 

**Program:**

**def Accept(p):**

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

**for i in range(n):**

**x=float(input("Enter the percentage of Fe students : "))**

**p.append(x)**

**def Display(p):**

**print("FE students percentage :")**

**for i in range(len(p)):**

**print("%.2f"%p[i])**

**def selection\_sort(p):**

**n=len(p)**

**for i in range(n-1):**

**min\_index=i**

**for j in range(i+1,n):**

**if(p[j]<p[min\_index]):**

**min\_index=j**

**temp=p[i]**

**p[i]=p[min\_index]**

**p[min\_index]=temp**

**def bubble\_sort(p):**

**n=len(p)**

**for i in range(1,n):**

**for j in range(n-i):**

**if(p[j]>p[j+1]):**

**temp=p[j]**

**p[j]=p[j+1]**

**p[j+1]=temp**

**def main():**

**p=[]**

**while True:**

**print("\n Press 1.Accept students percentage")**

**print("\n Press 2.Selection sort")**

**print("\n Press 3.Bubble sort")**

**print("\n Press 4.Exit")**

**ch=int(input("Enter the choice : "))**

**if(ch==1):**

**Accept(p)**

**Display(p)**

**elif(ch==2):**

**selection\_sort(p)**

**Display(p)**

**elif(ch==3):**

**bubble\_sort(p)**

**Display(p)**

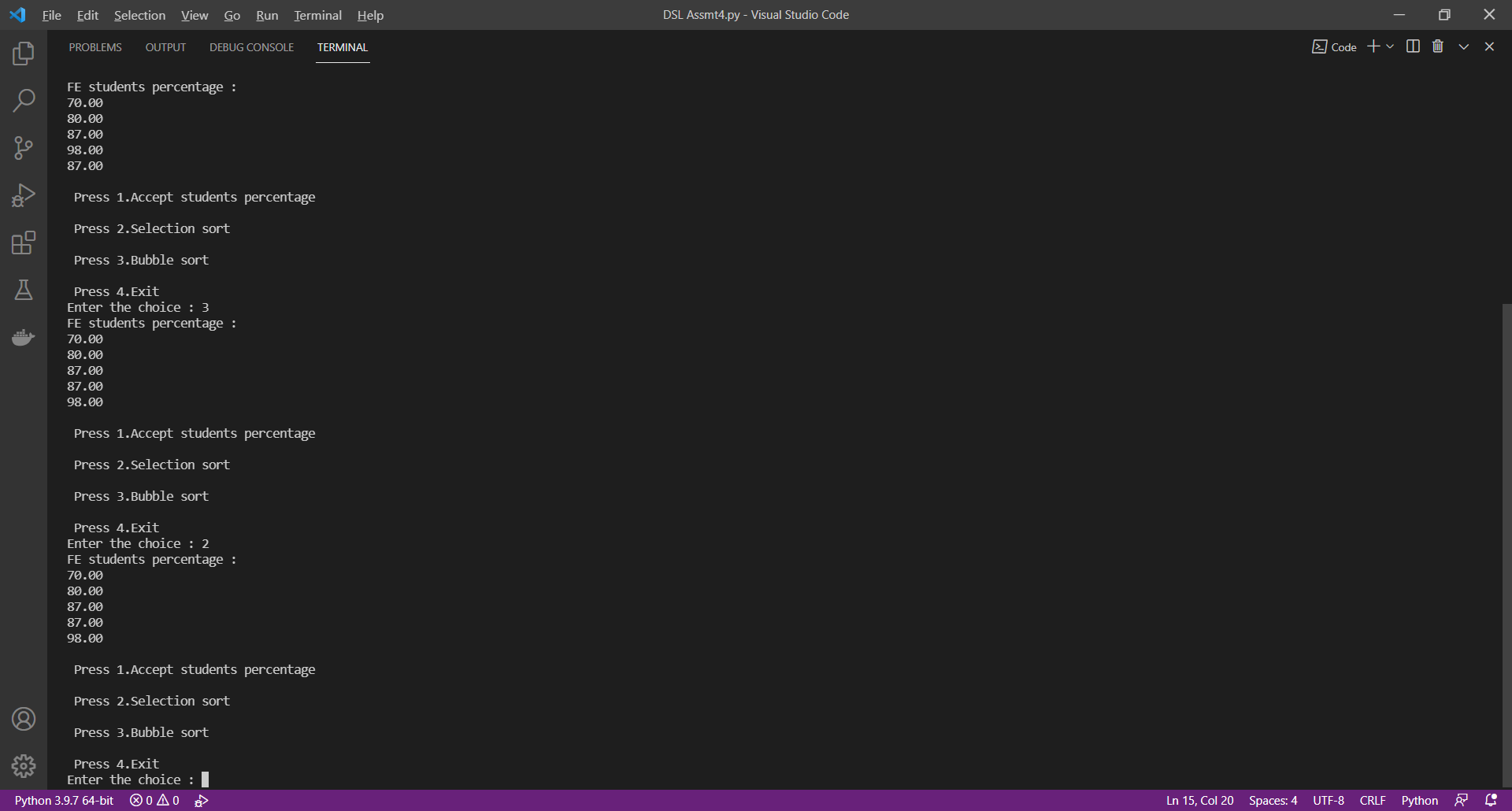
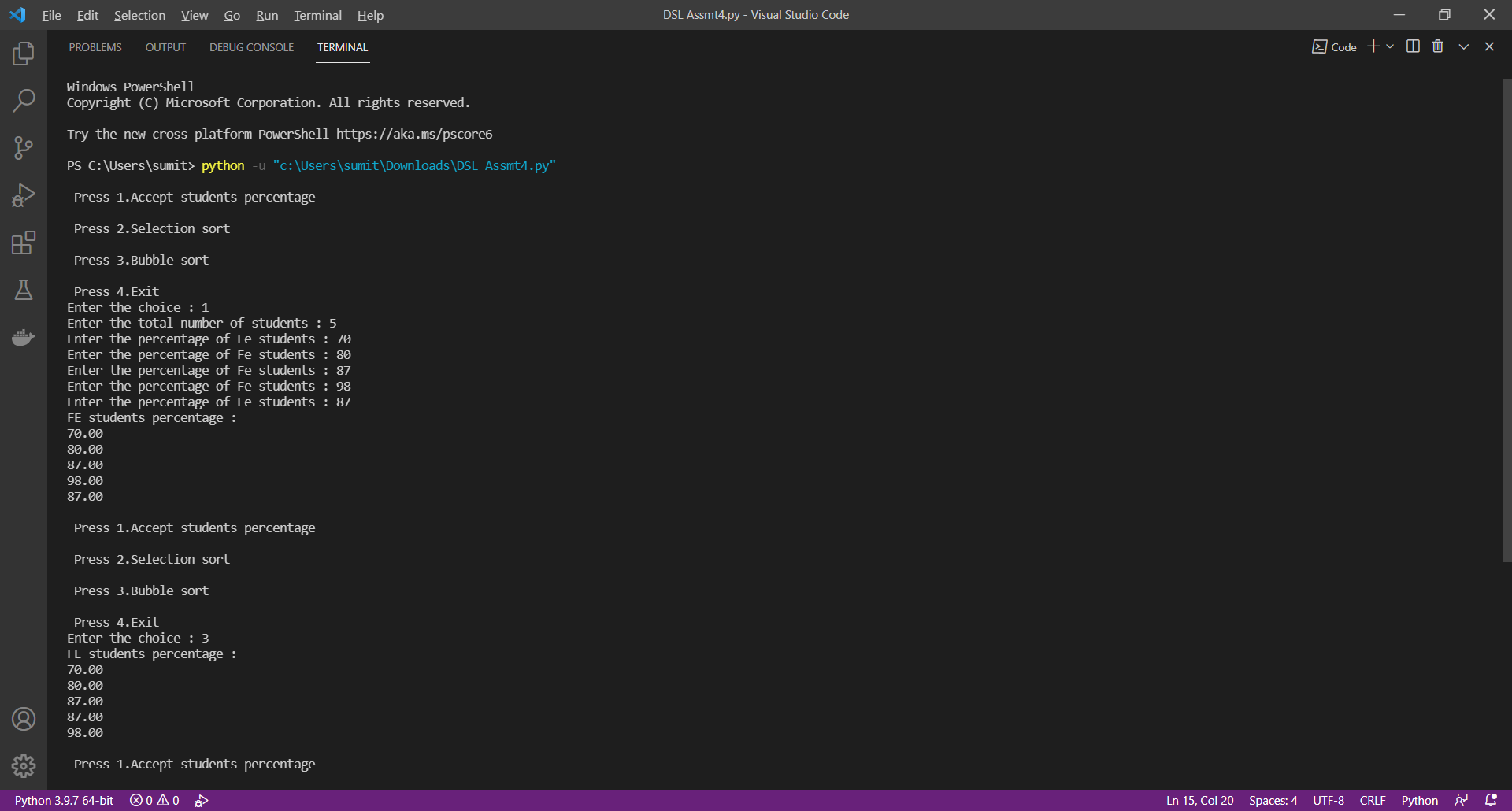
**else:**

**print("End program")**

**break**

**main()**

**Output:**

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