ILLUSTRATIVE EXAMPLES

Note- *Always get an Input from the USER.*

1.Write a Python Program to find Largest, Smallest, Second Largest, Second Smallest in a List without using min() & max() function.

```
>>>def find_len(list1):
        length = len(list1)
        list1.sort()
        print ("Largest element is:", list1[length-1])
        print ("Smallest element is:", list1[0])
        print ("Second Largest element is:", list1[length-2])
        print ("Second Smallest element is:", list1[1])
>>>list1=[12, 45, 2, 41, 31, 10, 8, 6, 4]
>>>Largest = find_len(list1)
```

Output:

Largest element is: 45

Smallest element is: 2

Second Largest element is: 41

Second Smallest element is: 4

2. Find the output of the following program

Program 2.1:

```
>>>subject= ['Physics', 'Chemistry', 'Computer']
>>>mark=[98,87,94]
>>>empty=[]
>>> print(subject, mark, empty)
```

Output:

['Physics', 'Chemistry', 'Computer'], [98, 87, 94], []

Program 2.2:

>>>mark=[98,87,94]

>>> mark[2]=100

>>> print(mark)

Output:

 [98, 87, 100]

Program 2.3:

>>> subject= ['Physics', 'Chemistry', 'Computer']

>>> 'Chemistry' in subject

Output:

True

Program 2.4:

>>> subject= ['Physics', 'Chemistry', 'Computer']

>>> for s in subject:

       print(s)

Output:

Physics

Chemistry

Computer

Program 2.5:

>>> for i in range(len(mark)):

       mark[i] = mark[i] * 2

>>> print(mark)

Output:

[196, 174, 200]