**INDIAN SCHOOL MUSCAT**

**CLASS XI**

**(2019-2020)**

**COMPUTER SCIENCE (Code 083)**

# WS 4 – Lists

## Attempt the following questions in the class work note book:

1. Give the output of the following code:-

```
list=['p','r','o','b','l','e','m']
list[1:3]=[]
print(list)
list[2:5]=[]
print(list)
```

2. Give the output of the following code:-

```
l1=[13,18,11,16,13,18,13]
print(l1.index(18))
print(l1.count(18))
l1.append(l1.count(13))
print(l1)
```

3. WAP in python to create a list of natural numbers from 1 to 50 using for loop.
4. WAP in python to take two lists of same size and create a third list of same size with adding elements at the same location of 1st & 2nd list. E.g. if A=[1,2,3], B= [4,5,6], then C[5,7,9].
5. WAP in Python to accept any ten numbers from the user in a list and display the maximum number along with its position.
6. WAP in Python to calculate &display the factorial of all elements of an integer list.
7. WAP to remove all even numbers from the given list.
8. WAP the print second largest element of the given list.
9. WAP to display cumulative elements of a given list.

   For eg LIST is [10,20,30,40]

   Output should be [10, 30,60,100]

10. Predict the output of the following code in python:

```
T1=[1]*3
```

```
T1[0]=2
print(T1)
```

11. Write the output for the following:

```
x = [4, 7, 9, 12, 10]
count = 0
for i in x:
   count= count + 1
print("Total number of elements = ", count)
```

12. Write the output for the following:

```
 A = [6, 2, 7, 9, 1, 3]
Sum = 0
Avg = 0
for x in range(len(A)):
   Sum += A[x];
Avg = Sum//len(A);
print("Sum = ",Sum)
print("Average = ", Avg)
```

13. Write the output for the following:

```
x = []
N = eval(input("enter size of list : "))
for i in range(0, N):
   x.append(eval(input("enter "+ str(i) + " element : ")))
print("Numbers in the list are ")
print(x)
max1 = x[0]
for i in range(1, N):
   if ( x[i] > max1):
      max1 = x[i]
print("Maximum value in the list = ", max1)
```