## Week 8- Day 2 : Coding Challenge <u>T(n)</u>

(Maximum marks - 15)

## Q - 2) Recursive function (3 marks)

```
n= int(input("Enter the limit"))
def func(n):
    if n>=1:
        func(n-1)
        print("Time complexity")
```

```
Q - 3) (3 marks)
n= int(input("Enter the limit"))
i = 1
while(i<sup>2</sup><=n):
      print("Time complexity")
      i += 1
Q - 4) (3 marks)
N= int(input("Enter the limit"))
M= int(input("Enter the limit"))
a = b = 0
for i in range(N):
    a = a + 1
for j in range(M):
    b = b + rand()
Q - 5) (3 marks)
n= int(input("Enter the limit"))
for i in range(n):
     for j in range(i):
           for k in range(100):
                  print("Time complexity")
```

## Q - 6) [BONUS QUESTION] (6 marks)

## Marks distribution:

Question 1,2, 3,4 and 5 carry 3 marks each.

Question 6 is a bonus question, that means if you leave that question you don't lose a mark, but if you solve it, you can get an extra 6 marks.

Remark: maximum marks you can get is 15, bonus question helps only if you are not able to solve another question.