

PROGRAMMING FUNDAMENTAL

LAB SESSION 5

Q.1 Write down a Python program, using While loop that generates Odd numbers between 1 to 100.

```
i=1
while i<100:
    print(i, end=" ")
    i=i+2
```

Output:'

```
labTask7
"C:\Users\admin\PycharmProjects\Programming Labs\venv\Scripts\python.exe" "C:/Users/admin/PycharmProjects/Prog
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 7
Process finished with exit code 0
```

Q.2 Write down a Python Program using While loop to generate the following outputs.

```
1 i=1
2 while i<5:
3     j=1
4     while j<15:
5         print("*", end=" ")
6         j=j+1
7     print(" ")
8     i=i+1
9 def gap():
10     k=1
11     while k<18:
12         k=k+1
13         print(" ", end=" ")
14     gap()
15     l=1
16     while l<5:
17         m=1
18         while m<15:
19             print("*", end=" ")
20             m=m+1
21         print(" ")
22         gap()
```

Output

```

C:\Users\admin\PycharmProjects\Programming Labs\venv\Scripts\p
* * * * *
* * * * *
* * * * *
* * * * *

* * * * *
* * * * *
* * * * *
* * * * *

Process finished with exit code 0
```

Output:

```
1 i=1
2 while i<9:
3     j=8
4     while j>i:
5         j=j-1
6         print("*",end=" ")
7     print(" ")
8     i=i+1
9
```

c)

Q.3 Write down a python program having one function for calculating factorial of a no. And call that function within a While loop to generate factorial of numbers from 0 to 10,

Output:

```
"C:\Users\admin\PycharmProjects\Pro
0 ! = 1
1 ! = 1
2 ! = 2
3 ! = 6
4 ! = 24
5 ! = 120
6 ! = 720
7 ! = 5040
8 ! = 40320
9 ! = 362880
10 ! = 3628800

Process finished with exit code 0
```

