. . .

THEORY:

of times.

sequential by default.

program several times.

The range() function:

we pass the range (10),

Nested for loop:

outer loop. Syntax:

. . .

fact=1

function is given below.

#Other statements

for i in range(1, num+1): fact=fact*i

for row in range (1,6):

else:

print()

if col<=row:

statement(s)

or dictionary.

Syntax:

Experiment 2.1: Implementing for loop in python

Name: Khan Arshad Abdulla Roll No: 20CO24 2021-2022 The flow of the programs written in any programming language is Sometimes we may need to alter the flow of the program. The execution of a specific code may need to be repeated several numbers For this purpose, The programming languages provide various types of loops which are capable of repeating some specific code several numbers of times. The for loop in Python is used to iterate the statements or a part of the It is frequently used to traverse the data structures like list, tuple, The syntax of for loop in python is: for iterating var in sequence: The range() function is used to generate the sequence of the numbers. If it will generate the numbers from 0 to 9. The syntax of the range() range(start, stop, step size) Python allows us to nest any number of for loops inside a for loop. The inner loop is executed n number of times for every iteration of the for iterating var1 in sequence: #outer loop for iterating var2 in sequence: #inner loop #block of statements num=int(input("Enter a number: ")) print("Factorial of", num, "is", fact) for col in range (1,6): print(6-col,end='') print(end='')

```
s='*'*3+'\n'+'*'*2+'\n'+'*'
print(s)

'''
OUTPUT:
Enter a number: 5
Factorial of 5 is 120
5
54
543
5432
54321
***
**
```

CONCLUSION:

 $\hbox{ In this perticular experiment we have successfully implemented for loop. for loop} \\$

provides code re-usability. Using loops, we do not need to write the same code again and again.

Using loops, we can traverse over the elements of data structures (array or linked lists).

1 1 1