I Pre Lab

1 What is the range() function? Give example.

Soln. The range() function returns a sequence of numbers, starting from 0 by default, and increments by 1 (by default), and stops before a specified number.

eg:

x = range(0, 6)
# Returns sequence starting from 0, till 5.

2 What is the importance of indentation in Python loops? Give example.

Soln. Indentation is important in loops as python reads each indented code as a part of a block. So, if a part is not to be looped and is kept inside the loop indentation, that part would also be looped.

eg: print finish only when the list is looped through.

```
list = [1, 2, 3]

for num in list:
    print (num)
    print ("finished")

# 1
# "finished"
# 2
# "finished"
    ...so on
```

```
list = [1, 2, 3]

for num in list:
    print (num)
print ("finished").

# 1
# 2
# 3
# "finished"
```

3. Select which is the for FOR loop.

Soln. d) We use a for loop when we want to perform a task indefinitely until a particular condition is met.

II. Post Lab.

1. Where are triple quoted String used?

Soln. Triple quoted Strings (""" """) are used to assign a multiline String to a Variable.

2. What is the role of the 'Continue' statement in the while loop?

Soln. A Continue Statement ends the current iteration of a loop. Program control is passed from the Continue Statement to the end of the loop body.

3. Can If-else and while loop be used interchangeably. Explain

Soln. Python supports to have an else statement associated with a loop statement. If the else Statement is used with a while loop, the else statement is executed when condition becomes false.