**The laboratory work 3**

#### **Exercise 1**: Print First 10 natural numbers using while loop.



#### Exercise 2: Print the following pattern



#### **Exercise 3**: Accept number from user and calculate the sum of all number from 1 to a given number

For example, if user entered **10** the output should be **55**.

#### **Exercise 4**: Print multiplication table of a given number

For example, num = 2 so the output should be



#### **Exercise 5**: Given a list, iterate it, and display numbers divisible by five, and if you find a number greater than 150, stop the loop iteration



#### **Exercise 6**: Reverse the following list using for loop



#### **Exercise 7**: Display numbers from -10 to -1 using for loop.



#### **Exercise 8**: Display a message “Done” after successful execution of for loop

For example, the following loop will execute without any error.



#### **Exercise 9**: Write a program to display all prime numbers within a range

**Note**: A Prime Number is a whole number that cannot be made by multiplying other whole numbers

**Examples**:

* 6 is not a Prime Number because it can be made by 2×3 = 6
* 37 is a Prime Number because no other whole numbers multiply together to make it.



#### **Exercise 10**: Write a loop to find the factorial of any number

The factorial (symbol: !) means to multiply all whole numbers from the chosen number down to 1.

**For example**: calculate the factorial of 5

