Programming 1: Lab 5: Conditions and Loops

- Take 2 numbers as input (X and Y) and a third number N. Display all the numbers between X and Y
 (X < i <= Y) that are divisible by N.
- 2. Take a positive integer as input and display the sum of its digits. The number can be of any length.
- 3. Take a positive integer N as input followed by repeatedly taking numbers from the user till the time user entered -999. At the end display the count of input numbers that are divisible by N and the count of input numbers that are not divisible by N.
- 4. Take a positive integer N as input and find its Factorial using a while loop. Handle invalid cases as well.
- 5. Take a positive integer as input. It may be of any length. Check if it is palindrome or not. Do not use any inbuilt reverse functions.
- 6. Display the first N terms of the Fibonacci sequence starting from 1.

- 7. Take an integer as input and check if it is prime or not. Handle invalid conditions and make your code efficient by minimizing the number of loop iterations.
- 8. Take a sentence as input and using while loop count the number of capital letters, small letters, digits, and special characters in the sentence. Do not use any inbuilt function.