Lab 5

Objective(s):

- To understand the programming using Loop & nested loop Statements (for, while, do-while)

1. Write a program to input two integer numbers and display the sum of even numbers between these two input numbers.

2. Write a program to find HCF and LCM of two numbers.

3. Write a program to find the sum of all individual digits of the number.(using do while loop).

4. Write a program to print the even numbers from 1 to 50.

5. Write a program to print the number from 1 to 100 which is exactly divisible by 7.

6. Write a program to find the factorial of a given number.

7. Write a program to generate fibonacci series until the term is less than 500.

8. Write a program to calculate sum of the following series:
$$y=x+x^2+x^3+x^4...x^n$$
where x and n are given by users.

9. Write a program to find sum as Y of the following series excluding prime numbers in the series.

$$Y = 1 + \frac{1}{1!} + \frac{2^2}{2!} + \frac{3^2}{3!} + \cdots + \frac{10^2}{10!}$$

10. Write a program to display the following:

a.
```
1
1    4
1    4    9
1    4    9    16
1    4    9    16    25
```

b.
```
*
*    *
*    *    *
*    *    *    *
```