

#### **Day-4 (Assignment)**

1. Write a Python program using functions to find the maximum of three numbers.
2. Write a Python program using functions to calculate the LCM of two numbers.
3. Write a Python program using functions to calculate the HCF of two numbers.
4. Write a Python program using functions to swap two numbers.
5. Write a Python program using functions and return statements to check whether a number is even or odd.
6. Write a Python program using functions to make a simple calculator for performing different mathematical operations like addition, subtraction, multiplication, and division.
7. Write a Python program to calculate the factorial of a number recursively.
8. Write a Python program to print the Fibonacci series using recursion.

#### **Practice:**

1. Write a Python program using functions to print prime numbers from 1 to N.
2. Write a Python program to calculate  $\exp(x, y)$  using a recursive function.