Algorithm Development and Programming Fundamentals
MCA SEM-1

Loops-II

1. Write a program to check whether the given number is binary or not.

2. Write a program to find the largest digit from the given number.

3. Write a C program to print all natural numbers from 1 to n. - using a while loop.

4. Write a C program to print all alphabets from a to z. - using a while loop.

5. Write a C program to print all even numbers between 1 to 100. - using a while loop.

6. Write a C program to find the sum of all odd numbers between 1 to n.

7. Write a C program to print Fibonacci series up to n terms using loop.
   Fibonacci series:
   0, 1, 1, 2, 3, 5, 8, 13, 21, 34

8. Write a program in C to display the pattern like a right angle triangle using an asterisk.
   E.g. for N=4
   ```
   *
   **
   ***
   ****
   ```

9. Write a C program to input a number and calculate its factorial using a for loop. The factorial of an integer n is the product of consecutive integers from 1 to n. That is, factorial n = n! = n x (n-1) x (n-2) x (n-3) x ... x 3 x 2 x 1.
For example factorial of 5 = 5 * 4 * 3 * 2 * 1 = 120

10. Write a C program to input two numbers from the user and find the GCD using a for loop.GCD (Greatest Common Divisor) is the greatest number that divides the two numbers.