<center>**Assignment - 4**</center>

1.) Write a C program input two numbers from user and find the HCF using for loop. (20)
Example

Input

```
Input first number: 12
Input second number: 30
```

Output

```
HCF of 12 and 30: 6
```

2.) Write a C program to input a number from user and find reverse of the given number using for loop. (20)

Example

Input

```
Input number: 12345
```

Output

```
Reverse of 12345 = 54321
```

3.) Write a C program to input two numbers from user and find LCM (Lowest Common Multiple) using loop. (20)

Example

Input

```
Input number1: 12
Input number2: 30
```

Output

LCM = 60

4.) Print the following patterns using loops: (20)
a.) *
   **
   ***
   *****
   ******
b.)1010101
   10101
    101
     1

5.) Write a C program to input a number and calculate its factorial using for loop. (20)
Example

Input

Input number: 5

Output

Factorial: 120