

1. Write a C program to input a number from user and find first and last digit of number using loop.

**Example**

**Input**

Input number: 1234

**Output**

First digit: 1

Last digit: 4

2. Write a C program to input number from user and check number is palindrome or not using loop.

**Example**

**Input**

Input any number: 121

**Output**

121 is palindrome

3. How to find frequency of digits in a given number using loop in C programming.

**Example**

**Input**

Input any number: 116540

**Output**

Frequency of 0 = 1

Frequency of 1 = 2

Frequency of 2 = 0

Frequency of 3 = 0

Frequency of 4 = 1

Frequency of 5 = 1

Frequency of 6 = 1

Frequency of 7 = 0

Frequency of 8 = 0

Frequency of 9 = 0

4. Write a C program to input a number and calculate its factorial using for loop.

**Example**

**Input**

Input number: 5

**Output**

Factorial: 120

5. Write a C program input two numbers from user and find the HCF using for loop.

**Example**

**Input**

Input first number: 12

Input second number: 30

**Output**

HCF of 12 and 30: 6

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

**Example**

**Input**

Input number1: 12

Input number2: 30

**Output**

LCM = 60

7. Write a C program to print all Prime numbers between 1 to n using loop.

**Example**

**Input**

Input lower limit: 1

Input upper limit: 20

**Output**

Prime numbers between 1-20: 2, 3, 5, 7, 13, 17, 19

8. Write a C program to print all Armstrong numbers between 1 to n.

**Example**

**Input**

Enter lower limit: 1

Enter upper limit: 1000

**Output**

Armstrong number between 1 to 1000 are:

1, 2, 3, 4, 5, 6, 7, 8, 9, 370, 371, 407

9. Write a C program to print Pascal triangle up to n rows using loop.

**Example**

**Input**

Input rows: 5

**Output**

```
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
```

10. Write a C program to print reversed mirrored right triangle star pattern of n rows using for loop.

**Example**

**Input**

Input rows: 5

**Output**

```
*****
****
***
**
*
```

11. Write a C program to print equilateral triangle or Pyramid star pattern series of n rows using for loop.

**Example**

**Input**

Input rows: 5

**Output**

```

*
**
***
****
*****
*****
*****
```

12. Write a C program to print reverse Pyramid or reverse equilateral triangle star pattern series using for loop.

**Example**

**Input**

Input rows: 5

**Output**

```
*****
*****
****
***
**
*
```

13. Write a program in C to print the Floyd's Triangle.

**Example**

**Input**

Input rows: 5

**Output**

```
1
01
101
0101
10101
```

14. Write a program in C to display the such a pattern for n number of rows using a number which will start with the number 1 and the first and a last number of each row will be 1.

**Example**

**Input**

Input rows: 3

**Output**

```
1
121
12321
```

15. Write a program in C to make such a pattern like a pyramid with a number which will repeat the number in the same row.

**Example**

**Input**

Input rows: 4

**Output**

```
1
2 2
3 3 3
4 4 4 4
```

16. Write a C program to print the given number pattern using for loop.

**Example**

Input N: 5

**Output**

```
12345
 2345
   345
    45
     5
```