Question - 01:

Calculate the Sum of first N Natural Numbers. You need to take a Input form the user and sum all the Values from 1 to N (user Input).

Question - 02:

The factorial of a positive number n is given by:

```
factorial of n (n!) = 1*2*3*4....n
```

The factorial of a negative number doesn't exist. And, the factorial of 0 is 1, `0! = 1`

Question - 03:

Create a program that takes an integer from the user and calculates the number of digits. For example: If the user enters 2319, the output of the program will be 4.

Question - 04:

The Fibonacci sequence is a series where the next term is the sum of pervious two terms. The first two terms of the Fibonacci sequence is 0 followed by 1.

```
The Fibonacci sequence: 0, 1, 1, 2, 3, 5, 8, 13, 21
```

Create a program to generate a Fibonacci Series of N numbers.

Question - 05:

Create a program to Calculate the sum of All Integer until the User enters Zero.

Question - 06:

Create a program takes a positive integer from the user and displays all the positive factors of that number.

Question - 07:

Write a solution to tell the user whether a number is a palindrome. (A palindrome is a number that is the same written both forward and backward, such as 81318.)

Question - 08:

Reverse the digits of a number such that 1234 becomes 4321.

Question - 09:

Write a program in C to display the pattern like right angle triangle with a number. The pattern like :

1
12
123
1234

Question - 10:

Write a program in C to display the n terms of square natural number and their sum. 1 4 9 16 ... n Terms

Test Data :

Input the number of terms : 5

Expected Output :

The square natural upto 5 terms are :1 4 9 16 25

The Sum of Square Natural Number upto 5 terms = 55

Question - 11

Create a program to check whether a number is Armstrong or not. Armstrong number is a number that is equal to the sum of cubes of its digits.

1. 153 = (1*1*1)+(5*5*5)+(3*3*3)
2. where:
3. (1*1*1)=1
4. (5*5*5)=125
5. (3*3*3)=27
6. So:
7. 1+125+27=153