# **Number Programs for Absolute Beginners:**

# LEVEL 1 →

- 1. WAP in C/C++/ java to perform the following tasks:
  - a. Accept two numbers from the user( a and b).
  - b. Print the numbers.
  - c. Print the smallest number.
  - d. Calculate their:
    - i. Summation (a+b)
    - ii. Subtract them (a-b)
    - iii. Multiply them (a\*b)
    - iv. Divide them (a/b quotient)
    - v. Remainder (a%b)
    - vi. Square root of each numbers.
- 2. WAP in C/C++/ java to print the even numbers between M and N (0> M,N <100)
- 3. WAP in C/C++/ java to find the suffix of the given number.

### Example,

Inputs	Outputs
1	st
2	nd
3	rd
11	th
21	st
22	nd
23	rd

4. WAP in C/C++/ java to divide two integers (dividend and divisor)

### Example,

Dividend = 7

Divisor = 2

Result = 3

Dividend = -17

Divisor = 5

Result = -3

Email id: creative.roy2003@gmail.com

Rohit Roy

- 5. WAP in C/C++/ java to generate prime numbers between M and N (0> M,N <1000)
- 6. WAP in C/C++/ java to find the **factorial** of the number.

For example:

1!=1

2!= 2 x 1= 2

3!= 3 x 2 x 1= 6

4!= 4 x 3 x 2 x 1= 24

5!= 5 x 4 x 3 x 2 x 1= 120

6!= 6 x 5 x 4 x 3 x 2 x 1= 720

7!= 7 x 6 x 5 x 4 x 3 x 2 x 1= 5,040

8!= 8 x 7 x 6 x 5 x 4 x 3 x 2 x 1= 40,320

9!= 9 x 8 x 7 x 6 x 5 x 4 x 3 x 2 x 1= 362,880

10!= 10 x 9 x 8 x 7 x 6 x 5 x 4 x 3 x 2 x 1= 3,628,800

7. WAP in C/C++/ java to find sum of the digits of the number.

Example, Input: 123, Output: 6 [expl. 1+2+3]

8. WAP in C/C++/ java to check whether the numbers is a **Neon number** or not.

Input:9

Output: Neon Number

Explanation: square is 9\*9 = 81 and sum of the digits of the square (8+1) is 9.

Input:12

Output: Not a Neon Number

Explanation: square is 12\*12 = 144 and sum of the digits of the square is 9(1 + 4 + 4) which is not equal to 12.

9. WAP in C/C++/ java to check whether the numbers is a **Special Number** or not.

Definition: If the sum of the factorial of digits of a number (N) is equal to the number itself, the number (N) is called a **special** number.

INPUT: 145 The digits of the number are: 1, 4, 5

Factorial of digits:

Email id: creative.roy2003@gmail.com

## **Rohit Roy**

Sum of factorial of digits = 1 + 24 + 120 = 145

Hence, the given number 145 is a special number.

10. WAP in C/C++/ java to check whether a number is a **Harshad Number** or not.

In recreational mathematics, a Harshad number in a given number base is an integer that is divisible by the sum of its digits when written in that base.

Example: Number 200 is a Harshad Number because the sum of digits 2 and 0 and 0 is 2(2+0+0) and 200 is divisible by 2. Number 171 is a Harshad Number because the sum of digits 1 and 7 and 1 is 9(1+7+1) and 171 is divisible by 9.

Input a number: 353

Expected Output: 353 is not a Harshad Number.

Email id: creative.roy2003@gmail.com