Lab 04 – Loops

1. Write a program to reverse a given number and check if it's a palindrome.

2. Generate prime numbers between 2 given limits.

3. Write a program to demonstrate the working on **Amstrong Number**.

4. Generate a multiplication table for **n** numbers upto **k** terms.

[Hint:
1 2 3 4 5 .... k
2 4 6 8 10 ....2*k
.....
n..... n*k]

5. Compare **Do-While** and **While** loops.

6. Check if a number is **perfect** or not.

   Ex: 28 = 1 + 2+ 4 + 7 + 14 = 28 is a perfect number.

7. Check if a number is **strong** or not.

   Ex: 145 = 1! + 4! + 5! = 1 + 24 + 120 = 145

8. Find out the **generic root** of any number.

   Ex: 456 = 4 + 5 + 6 = 15 = 1 + 5 = 6

9. Generate **Floyd's triangle** using natural numbers for a given number limit N.

Ex: Input: N = 4
Output:
1
2 3
4 5 6
7 8 9 10