Loop Assignment 02

1. **Program 1:**

   Write a program to print all natural numbers within the range.
   Take range input from the user

   Input:
   Lower limit: 10
   Upper limit: 15

   Output:
   10,11,12,13,14,15

2. **Program 2:**

   Write a program to print all even numbers within the range.
   Take range input from the user.

   Input:
   Lower limit: 10
   Upper limit: 15

   Output:
   10,12,14

3. **Program 3:**

   Write a program to print the sum of natural numbers within the range.
   Take range input from the user.

   Input:
   Lower limit: 1
   Upper limit: 10

   Output: 55

4. **Program 4:**

   Write a program to print products of natural numbers within the range.
   Take range input from the user

   Input:
   Lower limit:1
   Upper limit:10

   Output:
   3628800

5. **Program 5:**

   Write a program to find the frequency of a digit in a given integer.

   Input:
   1231100

   Output:
   Frequency of 1: 3
   Frequency of 2: 1
   Frequency of 3: 1
   Frequency of 0: 2

6. **Program 6:**
   Write a program to find whether the entered number is palindrome or not
   Input: Enter a number: 151
   Output: 151 is a palindrome number

   Input: Enter a number: 153
   Output: 153 is not a palindrome number

7. **Program 7:**
   Take a number input and check whether it is an automorphic number or not
   (automorphic number means: is a number *n* whose square ends in *n)*
   Input: 5
   Output: Yes it is an automorphic number

   Input: 7
   Output: No it is not an automorphic number

8. **Program 8:**

   Take a number from the user and reverse it
   Input: 123
   Output: 321

9. **Program 9:**
   Take a number input as a string and reverse it
   Input: "123" // as string
   Output: 321 *// as int*

10. **Program 10:**
    Take a range from the user and reverse each digit within the range
    Input:

    lower limit 10
    Upper limit 15
    Output:
    01 | 11 | 21 | 31 | 41 | 51 |