For loop assignment 1

28 September 2024

1. Write a python program that take a number from user then add all the natural number which are divisible by 3 or 5 both till that input number.

Sample input:

Enter a number: 10

Output: 33   (3+5+6+9+10)

2. Write a python program that takes input from user then print the table of the entered number using for loop

   Example: If user enters '5' then,

   Output: 5 x 1 = 5

   5 x 2=10

   5 x 3 =15

   5 x 4 =20

   5 x 5 = 25

   5 x 6 = 30

   5 x 7 = 35

   5 x 8 = 40

   5 x 9 = 45

   5 x 10 =50

3. Write a python program that print the given series.

Expected Output: 20, 16, 12, 8, 4, 0

4. Write a python program to generate all the factors of the given number. Using for loop

Input: 12

Output: 1, 2, 3, 4, 12

5. Write a Python program to find the sum of digit of a given number using for loop. (between 100 and 999).

Input: 123

Output: 6

6. write a python program that takes number from user then   prints count of even and odd number from 1 to till that number

Sample input:

Enter a number: 10

Output:

Count_of_even_no.s = 5

Count_of_odd_no.s = 5

7. Write a Python program to count how many numbers between 1 and 200 are divisible by 5 but not by 2.

8. Write a Python program to find the reverse of a given number using for loop. (between 100 and 999).

Input: 897

Output: 798

9. Write a python program to input a number and calculate the 'double' factorial using for loop.

Explanation: Double factorial,

- For an even integer n, the double factorial is the product of all even integers less than or equal to n.
- For an odd integer p, the double factorial is the product of all odd integers less than or equal to p.

10. Write a python program which takes number as an input and check whether that number is prime or not.

Input: 13

Output: prime