

19CSE100 – Problem Solving and algorithmic thinking- Lab

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Practice Program- Repetition

(Note: Write a separate program for the following problem)

1. Program to Find sum of first “N” natural numbers.

Sample Input : N=3

Output : 6 (Since 1+2+3)

2. Program to Find Factorial of a Number.

Sample Input: 5

Output: 120

Sample Input: 6

Output: 720

3. Program to check whether the given number is prime or not.

Sample Input: 44

Output: not prime number

Sample Input: 7

Output: prime number

4. Program to reverse given number.

Sample Input: 123

Output: 321

5. Program to display the n terms of harmonic series and their sum.
 $1 + 1/2 + 1/3 + 1/4 + 1/5 \dots 1/n$ terms

Sample Input:

number of terms : 5

Sample Output :

$1/1 + 1/2 + 1/3 + 1/4 + 1/5 +$

Sum of Series upto 5 terms : 2.283334

6. Program to find the sum of the series $1 + 11 + 111 + 1111 + \dots n$ terms

Sample Input:

number of terms : 5

Sample Output :

$1 + 11 + 111 + 1111 + 11111$

The Sum is : 12345