United International University



Department of Computer Science and Engineering

CSI 122 Structured Programming Language Laboratory

Spring 2020

Lab 2(Home)

1. Write a program to generate the multiplication table of a number taken as input using for loop.

*Sample Input:*

Enter number: 4

*Sample output:*

4 x 1 = 4

4 x 2 = 8

4 x 3 = 12

4 x 4 = 16

4 x 5 = 20

4 x 6 = 24

4 x 7 = 28

4 x 8 = 32

4 x 9 = 36

4 x 10 = 40

1. Write a program to calculate the factorial of a number using for loop.

*Sample Input:*

Enter a number: 5

*Sample output:*

The factorial is: 120

3. Write a program (WAP) that will calculate the result for the first Nth terms of the following series. [In that series, dot sign (.) means multiplication]

1.2 + 2.3 + 3.5 + 4.8 + 5.12 + 6.17 +……..

*Sample Input:*

How many terms? 5

*Sample output:*

The series sum is: 115

1. Write a program that will count number of digits, as well as, sum up each digit for a given integer N.

*Sample Input:*

Enter a number: 125

*Sample output:*

The number has 3 digits which sum to 8.