**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Advanced Programming in C++**

**Lab Exercise 5.25.2023**

1. Write a C++ program to divide two given integers (dividend and divisor) and get the quotient without using multiplication, division and mod operator.

Expected Output:  
Dividend = 7, Divisor = 3  
Quotient= 2

Remainder = 1  
Dividend = -17, Divisor = 5  
Quotient= -3

Remainder = -2  
Dividend = 35, Divisor = 7  
Quotient = 5

Remainder = 0

1. Write a program to display the pattern like right angle triangle with a number input.    
   The number 4 will result in this pattern:

1

12

123

1234

1. Write a program in C++ to find the sum of the series



Test Data :  
Input the Value of x :2  
Input the number of terms : 5  
Expected Output :  
the sum = -0.415873

1. Write a program to display the sum of the series [ 9 + 99 + 999 + 9999 ...].

Test Data :  
Input the number or terms :5  
Expected Output :  
9 99 999 9999 99999  
The sum of the series = 111105