

## ITC LAB #06 SE-A

### LAB TASK

- Write a program in C++ to calculate the sum of the series  $(1*1) + (2*2) + (3*3) + (4*4) + (5*5) + \dots + (n*n)$ .

**Output:**

Input the value for nth term: 5

$1*1 = 1$

$2*2 = 4$

$3*3 = 9$

$4*4 = 16$

$5*5 = 25$

The sum of the above series is: 55

- Write a program in C++ to display the n power of the number upto given an integer

**Output**

Input the number of terms : 5

Input the nth power: 3

Number is : 1 and the nth(3) power of 1 is: 1

Number is : 2 and the nth(3) power of 2 is: 8

Number is : 3 and the nth(3) power of 3 is: 27

Number is : 4 and the nth(3) power of 4 is: 64

Number is : 5 and the nth(3) power of 5 is: 125

- Write a program in C++ to display the n terms of odd number and there sum

**Output**

Input number of terms: 5

The even numbers are: 1 3 5 7 9

The Sum of even Natural Numbers upto 5 terms: 25

**Do this program using while and do while loop**

- Write a program that takes two numbers from the user and operation that user want to perform and display the result accordingly. Ask the user whether he/she wants to continue or not

## See the output below

### Output

Enter the value 1:2

Enter the value 2:3

=====List of operation=====

Press + for Addition

Press - for Subtraction

Press \* for Multiplication

Press / for Division

=====

+

Addition: 5

Do you want to continue(y/n)?y

Enter the value 1:3

Enter the value 2:4

=====List of operation=====

Press + for Addition

Press - for Subtraction

Press \* for Multiplication

Press / for Division

=====

-

Subtraction: -1

Do you want to continue(y/n)?y

Enter the value 1:4

Enter the value 2:5

=====List of operation=====

Press + for Addition

Press - for Subtraction

Press \* for Multiplication

Press / for Division

=====

\*

Multiplication: 20

Do you want to continue(y/n)?y

Enter the value 1:4

Enter the value 2:2

=====List of operation=====

Press + for Addition

Press - for Subtraction

Press \* for Multiplication

Press / for Division

=====

/

Division: 2

Do you want to continue(y/n)?n

Press any key to continue ...