

ITC LAB #06 CS-B

LAB TASK

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

$$1 + 1/2^2 + 1/3^3 + .. + 1/n^n$$

Output:

Input the value for nth term: 5

$$1/1^1 = 1$$

$$1/2^2 = 0.25$$

$$1/3^3 = 0.037037$$

$$1/4^4 = 0.00390625$$

$$1/5^5 = 0.00032$$

The sum of the above series is: 1.29126

- Write a program in C++ to display the multiplication table of n number from 1 to 10

Output:

Input the number : 5

$$5 \times 1 = 5$$

$$5 \times 2 = 10$$

$$5 \times 3 = 15$$

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

$$5 \times 6 = 30$$

$$5 \times 7 = 35$$

$$5 \times 8 = 40$$

$$5 \times 9 = 45$$

$$5 \times 10 = 50$$

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

Input number of terms: 5

The even numbers are: 2 4 6 8 10

The Sum of even Natural Numbers upto 5 terms: 30

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 . .