

ITC LAB #09 CS-B

LAB TASK

1. Write a Function that takes three numbers as a parameter. Your function should output the numbers in ascending order. Ask user to enter these numbers.
2. Write a Function in C++ that **return** the sum of the series. Your program should ask the nth term from the user

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

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

3. Write a function that takes integer as a parameter and outputs if the passed integer is Perfect numbers or not. How to generate all perfect numbers between given interval using loop

Perfect number is a positive integer which is equal to the sum of it's proper positive divisors.

For example: 6 is the first perfect number

Proper divisors of 6 are 1, 2, 3

Sum of its proper divisors = $1 + 2 + 3 = 6$.

Hence 6 is a perfect number.