

1. Write a program to display the cube of the number upto given an integer.
2. Write a program to display the n terms of harmonic series and their sum.
 $1 + 1/2 + 1/3 + 1/4 + 1/5 \dots 1/n$ terms

Test Data :

Input the number of terms : 5

Expected Output :

$1/1 + 1/2 + 1/3 + 1/4 + 1/5 +$

Sum of Series upto 5 terms : 2.283334

3. Write a program to check whether a given number is a perfect number or not.

Test Data :

Input the number : 56

Expected Output :

The positive divisor : 1 2 4 7 8 14 28

The sum of the divisor is : 64

So, the number is not perfect.

4. Write a program to determine whether a given number is prime or not.

Test Data :

Input a number: 13

Expected Output :

13 is a prime number.

5. Write a program to display the first n terms of Fibonacci series.

Fibonacci series 0 1 2 3 5 8 13

Test Data :

Input number of terms to display : 10

Expected Output :

Here is the Fibonacci series upto to 10 terms :

0 1 1 2 3 5 8 13 21 34

6. Write a program to display the number in reverse order.

Test Data :

Input a number: 12345

Expected Output :

The number in reverse order is : 54321

7. Write a menu driven program to convert a decimal number into binary and binary to decimal based on the user's choice.

Test Data :

Menu

1. Dec to Bin
2. Bin to Dec
3. Exit

Enter your choice: 1

Enter a number to convert : 25

Expected Output :

The Binary of 25 is 11001.

8. Write a program to find LCM of any two numbers using HCF.

Test Data :

Input 1st number for LCM: 15

Input 2nd number for LCM: 20

Expected Output :

The LCM of 15 and 20 is : 60