

1. Write a program in C to find the square of any number using the function.

Test Data :

Input any number for square : 20

Expected Output :

The square of 20 is : 400.00

2. Write a program in C to swap two numbers without using any third variable.

Test Data :

Input 1st number : 2

Input 2nd number : 4

Expected Output :

Before swapping: n1 = 2, n2 = 4

After swapping: n1 = 4, n2 = 2

3. Write a program in C to check a given number is even or odd using the function.

Test Data :

Input any number : 5

Expected Output :

The entered number is odd.

4. Write a program in C to find the sum of the series $1!/1 + 2!/2 + 3!/3 + 4!/4 + 5!/5$ using the function.

Expected Output :

The sum of the series is : 34

5. Write a program in C to convert decimal number to binary number using the function.

Test Data :

Input any decimal number : 65

Expected Output :

The Binary value is : 1000001

6. Write a program in C to check whether a number is a prime number or not using the function.

Test Data :

Input a positive number : 5

Expected Output :

The number 5 is a prime number.

7. Write a program in C to get the largest element of an array using the function.

Test Data :

Input the number of elements to be stored in the array :5

Input 5 elements in the array :

element - 0 : 1

element - 1 : 2

element - 2 : 3

element - 3 : 4

element - 4 : 5

Expected Output :

The largest element in the array is : 5

8. Write a program in C to check Armstrong and Perfect numbers using the function.

Test Data :

Input any number: 371

Expected Output :

The 371 is an Armstrong number.

The 371 is not a Perfect number.