C Function

**1.**Write a program in C to show the simple structure of a function.  
*Expected Output* :

The total is : 11

**2.**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

**3.**Write a program in C to swap two numbers using function.   
Test Data :  
Input 1st number : 2  
Input 2nd number : 4  
*Expected Output* :

Before swapping: n1 = 2, n2 = 4

After swapping: n1 = 4, n2 = 2

**4.**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.

**5.**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

**6.**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

**7.**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.

**8.**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

**9.**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.

**10.**Write a program in C to print all perfect numbers in given range using the function.   
Test Data :  
Input lowest search limit of perfect numbers : 1  
Input lowest search limit of perfect numbers : 100  
*Expected Output* :

The perfect numbers between 1 to 100 are :

6 28

**11.**Write a program in C to check whether two given strings are an anagram.   
Test Data :  
Input the first String : spare  
Input the second String : pears  
*Expected Output* :

spare and pears are Anagram.