

Answer on Question#37990- Programming, C++

1. Write a C++ code that implements a recursive function that solves the Fibonacci theory. Your program should ask the user to enter a number then you'll show him the Fibonacci of the entered number.

Solution.

```
#include<iostream>

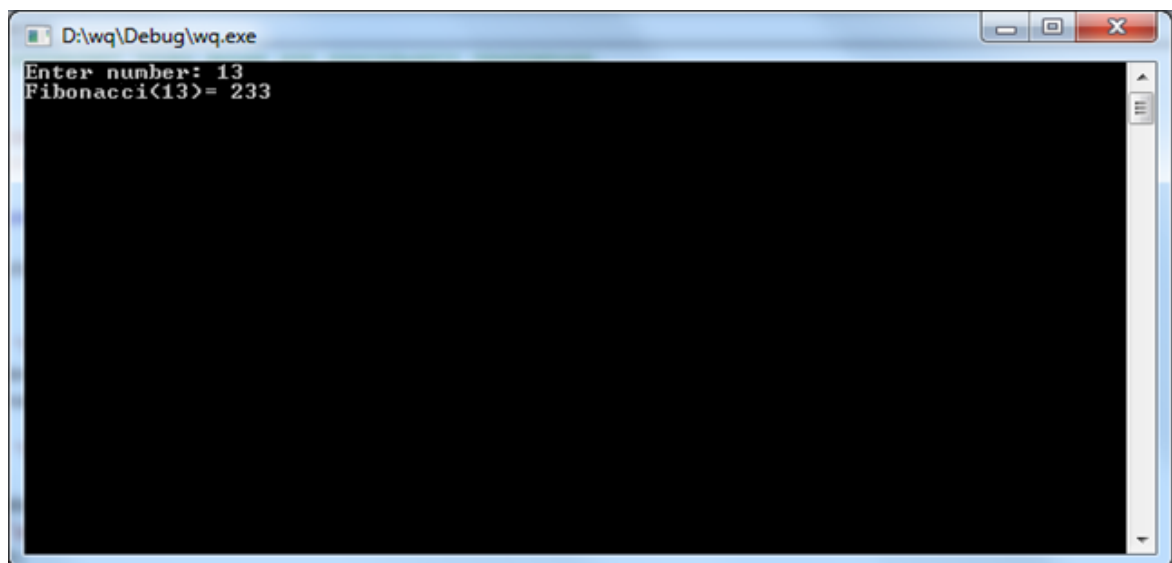
using namespace std;

long Fibonacci (long);
int main()
{
    cout << "Enter number: ";
    long number;
    cin >> number;

    cout << "Fibonacci("<< number <<")= "<< Fibonacci(number) << endl;

    cin>>number;
    system("pause");
    return 0;
}

long Fibonacci (long n)
{
    if ((n==0) || (n==1))
    {
        return n;
    }
    else
    {
        return Fibonacci(n-1)+ Fibonacci(n-2);
    }
}
```



```
D:\wq\Debug\wq.exe
Enter number: 13
Fibonacci(13)= 233
```