```cpp
1  //
   ----------------------------------------------------------------------
   --------------------------------------------
2  //Name                        Sai Chaitanya Kilambi
3  //Course                      CPSC 131 Data Structures, Fall, 2022
4  //Assignment                  No.5 question:4
5  //Due date                    09/28/2022
6  // Purpose:
7  // This program call a recursive function that computes the given term of
   the Fibonacci numbers
8  //--------------------------------------------------------------------
   --------------------------------------------
9  // list of libraries
10 //
11 //importing the required libraries
12 #include <iostream>
13
14 //creating the recursive function
15 int fib(int num)
16 {
17     if (num == 0) {
18         return 0;  //fact 1
19     }
20
21     else {
22         if (num == 1){
23             return 1;  //fact 2
24         }
25         else {
26             return fib(num - 1) + fib(num - 2);  //recursion
27         }
28
29     }
30
31 }
32 //main function
33 int main() {
34
35     int n1=10,n2=45;
36
37     // calling function and printing the output
38     std::cout<<"The "<<n1<<"th term of Fibonacci numbers is " << fib(n1)
         <<std::endl;
39     std::cout << "The " << n2 << "th term of Fibonacci numbers is " << fib
         (n2);
40
41     return 0;
42
43 }
```