Question01.cpp

```cpp
1   // DSA LAB 7
2   // <---Q1--->
3   // Write a program and recurrence relation to find the Fibonacci series of n where n>2.
4
5   #include <iostream>
6   using namespace std;
7
8   // Function to find the nth Fibonacci number using recursion
9   int fibonacciRecursive(int n) {
10      if (n <= 1) {
11          return n;
12      } else {
13          return fibonacciRecursive(n - 1) + fibonacciRecursive(n - 2);
14      }
15  };
16
17  int main() {
18      int n;
19
20      // Input the value of n
21      cout << "Enter the value of n (n > 2): ";
22      cin >> n;
23
24      // Check if n is greater than 2
25      if (n <= 2) {
26          cout << "Invalid input. Please enter n > 2." << endl;
27          return 1; // Return an error code
28      }
29
30      // Using recursion to find the nth Fibonacci number
31      cout << "Fibonacci series using recursion:" << endl;
32      for (int i = 0; i < n; ++i) {
33          cout << fibonacciRecursive(i) << " ";
34      }
35      cout << endl;
36
37      return 0;
38  }
39
```