

Day-24 of the 101 days coding challenge

⇒ Recursion Practice

➔ According to the given position finding the addition of the Fibonacci number.

Code:

```
#include<iostream>

using namespace std;

int fibonacci(int n)
{
    if(n == 0) // if nth value becomes 0 will return 0
        return 0;

    if(n == 1) // if nth value becomes 1 will return 1
        return 1;

    return fibonacci(n-1) + fibonacci(n-2); // recursively calling the same function
}

int main()
{
    int num;

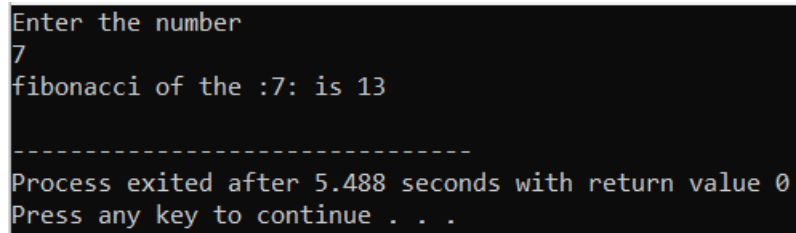
    cout<<"Enter the number "<<endl;

    cin>>num;

    int result = fibonacci(num); // here passed the user input to the fibonacci series
```

```
    cout<<"fibonacci of the :"<<num<<": is "<<result<<endl;  
    return 0;  
}
```

Output:

A terminal window with a black background and white text. The text shows the program's execution: a prompt to enter a number, the input '7', the output 'fibonacci of the :7: is 13', a separator line of dashes, and a message indicating the process exited after 5.488 seconds with a return value of 0, followed by a prompt to press any key to continue.

```
Enter the number  
7  
fibonacci of the :7: is 13  
-----  
Process exited after 5.488 seconds with return value 0  
Press any key to continue . . .
```