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**Assignment No: 1**

**Title Name: Write a program to calculate Fibonacci numbers and find its step count.**

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**Program:**

#include <iostream>

using namespace std;

int cnt=0;

void fib(int num)

{

int fo = 0, f1 = 1, fn = 0;

cout << fo << " "<< f1 <<" ";

cnt=cnt+4;

for (int i = 2; i < num; i++)

{

fn = fo + f1;

fo = f1;

f1 = fn;

cout << fn << " ";

}

cnt=6\*num+2;

cout << endl<< cnt << " ";

}

int main() {

int num;

cout << "Enter the number : ";

cin >> num;

cout << "\nThe Fibonacci series : " ;

fib(num);

return 0;

}

**Output:**

Enter the number : 10

The fibonacci series : 0 1 1 2 3 5 8 13 21 34

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