

**NAME: B.PRIYANKA(192421206)**

**COURSE NAME : DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS**

**COURSE CODE : CSA0302**

**9.** **WRITE A C PROGRAM TO PERFORM FIBONACCI SERIES WITH RECURSIVE FUNCTION**

**C PROGRAMMING CODE:**

#include <stdio.h>

int main() {

int n, i, a = 0, b = 1, c;

printf("Enter number of terms: ");

scanf("%d", &n);

printf("Fibonacci Series: %d %d ", a, b);

for (i = 2; i < n; i++) {

c = a + b;

printf("%d ", c);

a = b;

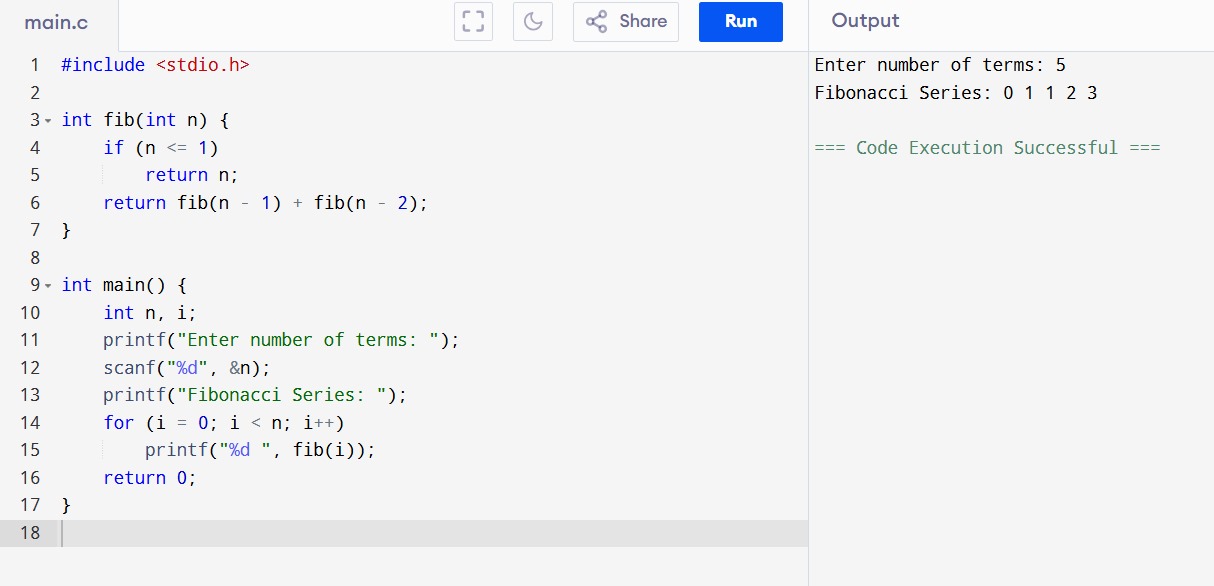
b = c;

}

return 0;

}

**OUTPUT:**



**10.WRITE A C PROGRAM TO PERFORM FIBONACCI SERIES WITH OUT RECURSIVE FUNCTION**

**C PROGRAMMING CODE:**

#include <stdio.h>

int main() {

int n, i, a = 0, b = 1, c;

printf("Enter number of terms: ");

scanf("%d", &n);

printf("Fibonacci Series: %d %d ", a, b);

for (i = 2; i < n; i++) {

c = a + b;

printf("%d ", c);

a = b;

b = c;

}

return 0;

}

**OUTPUT:**

