PROGRAM 4: PROGRAM TO FIND FIBONACCI SERIES WITHOUT RECURSION

#include<stdio.h>

void printFibonacci(int n){

static int n1=1,n2=1,n3;

if(n>0){

n3 = n1 + n2;

n1 = n2;

n2 = n3;

printf("%d ",n3);

printFibonacci(n-1);

}

}

int main(){

int n;

printf("Enter the number of elements: ");

scanf("%d",&n);

printf("Fibonacci Series: ");

printf("%d %d ",0,1);

printFibonacci(n-2);//n-2 because 2 numbers are already printed

return 0;

}

OUTPUT: 