1. Fibonacci Series in Java without using recursion
2. **class** FibonacciExample1{
3. **public** **static** **void** main(String args[])
4. {
5. **int** n1=0,n2=1,n3,i,count=10;
6. System.out.print(n1+" "+n2);//printing 0 and 1
8. **for**(i=2;i<count;++i)//loop starts from 2 because 0 and 1 are already printed
9. {
10. n3=n1+n2;
11. System.out.print(" "+n3);
12. n1=n2;
13. n2=n3;
14. }
16. }}

## Fibonacci Series using recursion in java

1. **class** FibonacciExample2{
2. **static** **int** n1=0,n2=1,n3=0;
3. **static** **void** printFibonacci(**int** count){
4. **if**(count>0){
5. n3 = n1 + n2;
6. n1 = n2;
7. n2 = n3;
8. System.out.print(" "+n3);
9. printFibonacci(count-1);
10. }
11. }
12. **public** **static** **void** main(String args[]){
13. **int** count=10;
14. System.out.print(n1+" "+n2);//printing 0 and 1
15. printFibonacci(count-2);//n-2 because 2 numbers are already printed
16. }
17. }

Let's see the fibonacci series program in C++ without recursion.

1. #include <iostream>
2. **using** **namespace** std;
3. **int** main() {
4. **int** n1=0,n2=1,n3,i,number;
5. cout<<"Enter the number of elements: ";
6. cin>>number;
7. cout<<n1<<" "<<n2<<" "; //printing 0 and 1
8. **for**(i=2;i<number;++i) //loop starts from 2 because 0 and 1 are already printed
9. {
10. n3=n1+n2;
11. cout<<n3<<" ";
12. n1=n2;
13. n2=n3;
14. }
15. **return** 0;
16. }

Let's see the fibonacci series program in C++ using recursion.

1. #include<iostream>
2. **using** **namespace** std;
3. **void** printFibonacci(**int** n){
4. **static** **int** n1=0, n2=1, n3;
5. **if**(n>0){
6. n3 = n1 + n2;
7. n1 = n2;
8. n2 = n3;
9. cout<<n3<<" ";
10. printFibonacci(n-1);
11. }
12. }
13. **int** main(){
14. **int** n;
15. cout<<"Enter the number of elements: ";
16. cin>>n;
17. cout<<"Fibonacci Series: ";
18. cout<<"0 "<<"1 ";
19. printFibonacci(n-2);  //n-2 because 2 numbers are already printed
20. **return** 0;
21. }