```java
/**
 *
 */
package week1_homework1;

/**
 * @author gayat
 *
 */
public class Fibonacci_Series {

    /**
     *
     */
    public static int Fibonacci_Series(int n) {
        // TODO Auto-generated constructor stub
        int a = 0;
        int b = 1;
        int c;
        if (n == 0) {
            System.out.println(a);
            return n;
        }
        else if (n == 1) {
            System.out.println(a) ;
            return n;
        }
        System.out.println(a + "\n" + b) ;

        for(int i = 1; i<= n; i++)
            {
            c= a+b ;
// Set b as a
            a = b ;
//set b as total value c
            b = c ;
            System.out.println(c);
            }


        return b;

    }


    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Fibonacci_Series(7);
    }

}
```
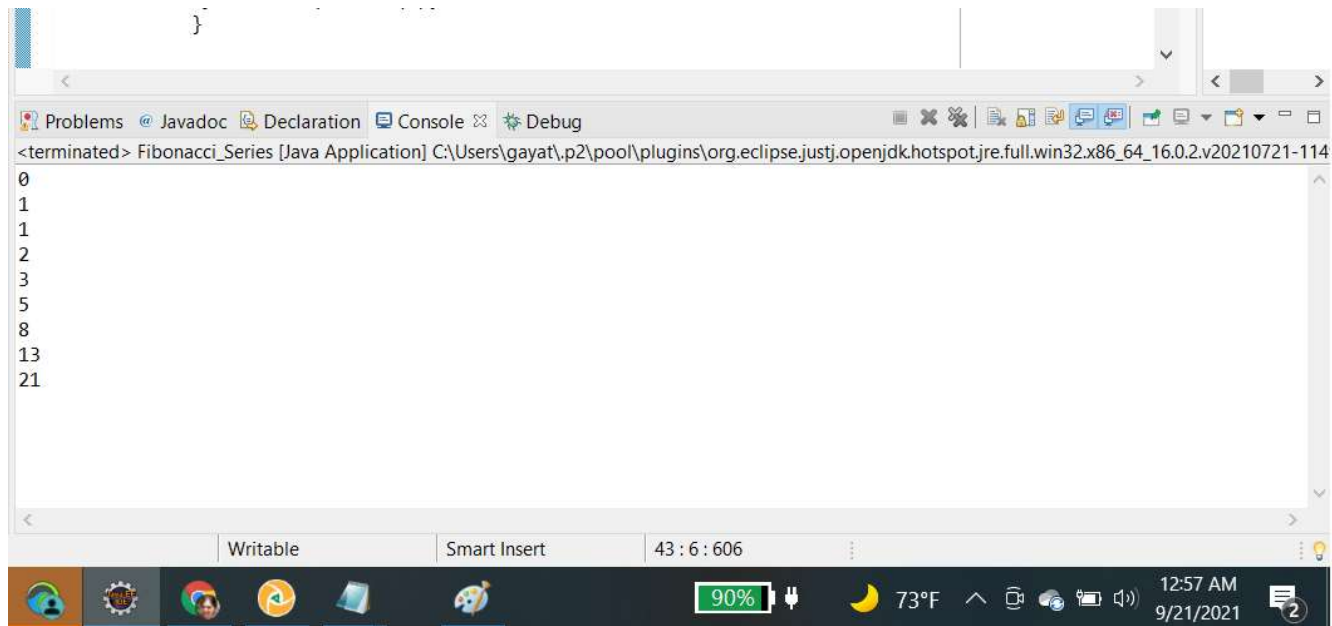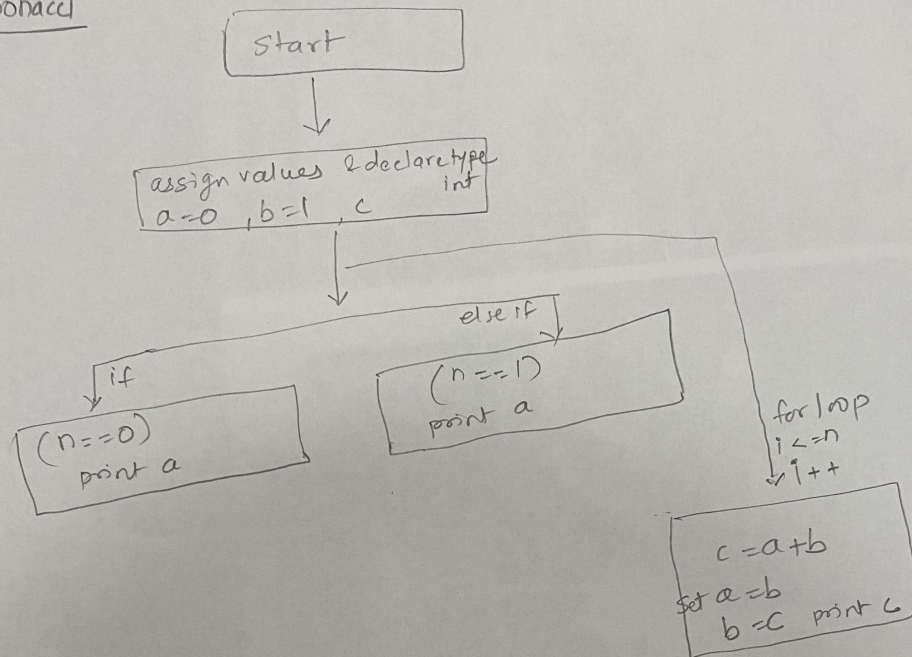
```
        }
```

<terminated> Fibonacci_Series [Java Application] C:\Users\gayat\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-114

```
0
1
1
2
3
5
8
13
21
```

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Fibonacci

Start

assign values & declare type int
a=0, b=1, c

if
(n==0)
print a

else if
(n==1)
print a

for loop
i <= n
i++

c = a+b
set a=b
b=C print c

a	b	C
0	1	
		1
1	1	
		2
1	2	
		3
2	3	
		5
3	5	
		8