

Experiment No. 2 (a)

Aim

Java program to Print the Fibonacci Series.

Source code

```
package java_file;

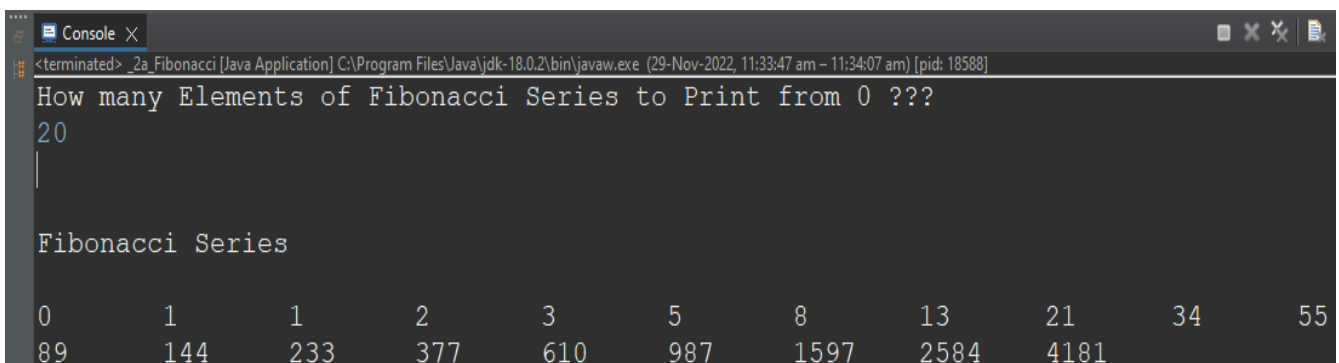
import java.util.Scanner;

public class _2a_Fibonacci {

    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        System.out.println("How many Elements of Fibonacci Series to Print from 0 ???");
        int a=input.nextInt();
        int full=10;
        int fib[]=new int[a];
        fib[0]=0;
        fib[1]=1;
        System.out.println("\n\nFibonacci Series\n");
        System.out.print("0\t1\t");

        for(int i=2;i<a;i++)
        {
            fib[i]=fib[i-1]+fib[i-2];
            System.out.print(fib[i]+"");
            if(i==full)
            {
                System.out.println();
                full+=10;
            }
        }
    }
}
```

Output

A screenshot of a Java console application window titled "Console". The window shows the execution of the program. The prompt "How many Elements of Fibonacci Series to Print from 0 ???" is displayed, followed by the user input "20". Below this, the text "Fibonacci Series" is printed. The output shows the first 20 Fibonacci numbers arranged in two rows: the first row contains 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55 and the second row contains 89, 144, 233, 377, 610, 987, 1597, 2584, 4181. The window title bar includes standard OS controls (minimize, maximize, close) and a file icon.

```
<terminated> _2a_Fibonacci [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (29-Nov-2022, 11:33:47 am – 11:34:07 am) [pid: 18588]
How many Elements of Fibonacci Series to Print from 0 ???
20

Fibonacci Series

0      1      1      2      3      5      8      13      21      34      55
89     144     233     377     610     987     1597     2584     4181
```