CHANDIGARH UNIVERSITY
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APEX Institute of Technology

Experiment Number:1.2

Student Name: Alasso	**UID:**
Branch: CSE-AML	**Section & Group**:
Semester: 3	**Date**: 29/08/2022
Course Name: Programming in JAVA	**Course Code**: 21CSH-244

1. Aim/Overview of the practical:

The Fibonacci sequence is defined by the following rule. The first 2 values in the sequence are 1,1. Every subsequent value is the sum of the 2 values preceding it. Write a Java program that uses both recursive and non- recursive function to print the n^{th} value of the Fibonacci sequence.

2. Task to be done:

Take the length of the series as input and then print the series using for loop.

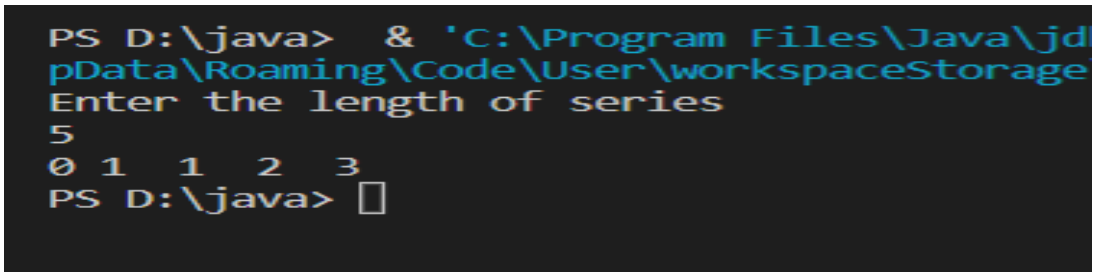
3. Algorithm:

Step: 1. Start
Step: 2. Declare four variables int c,n,a=1,b=0.
Step:3. Take the length as input from user.
Step:4. Now print the series using for loop.
Step:5. Stop

4. Code (For Programming)

```
import java.util.Scanner;
class Fab{
    public static void main(String[]args){
        Scanner input = new Scanner(System.in);
            int c,n,a=1,b=0;
            System.out.println("Enter the length of series");
            n=input.nextInt();
            System.out.print(b+" "+a+" ");
            for(int i=0;i<n-2;i++){
                c=a;
                a=a+b;
                b=c;
                System.out.print(" " +a +" ");
            }
    }
    }
```

5. Result/Output/Writing Summary:



Learning outcomes (What I have learnt):

1. Learnt about Fibonacci series.
2. Learnt about loops in java.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			