Practical Examination

Enrollment Number : EC2431201010114   Name of Student : Rithik kumar.B

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Name of the Subject : Programming in Java

Title : Fibonacci Series

Aim : To write an program to execute fibonacci serries of an given number.

Procedure / Algorithm:

1. Start the program.
2. Input the number (num) for many terms of the Fibonacci series you want to compute.
3. Initialize the variable :
   First = 0
   Second = 1
4. Loop From 1 to n to calculate the Fibonacci sequence of the given number :
   Print **First**
   Calculate the next term as **next = first + second**
   Update the **first = second** and **second = next**.
5. Display the series.
6. End the program.

Program :

```
    import java.util.*;

class Main {

  public static void main(String[] args) {

    Scanner scanner = new Scanner(System.in);

    System.out.println("Enter  the number of series : ");

    int n =scanner.nextInt();

    int first = 0 , second = 1;
```

```java
        System.out.println("Fibonacci series : ");

        for(int i =1 ; i<=n; i++){

            System.out.print(first + " ");

            int next = first + second;

            first = second ;

            second = next;

        }

        scanner.close();

    }

}
```

Out Put :

Enter the number of series :

5

Fibonacci series :

0 1 1 2 3

Result : Thus the program execute the Fibonacci series for the given number