**Practical Examination**

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Date : 02:12:2024 Subject Code : V20UDS201

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

1. 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**.

1. Display the series.
2. 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;

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