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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in Java (course)

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs08/preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Register for Certification exam (https://nptelaprilexam.swayam.gov.in/)

Course outline

How does an NPTEL online course work?

Week 0 :

Week 1 :

Week 2 :

Week 3 :

- Lecture 11 : Java Static Scope Rule (unit?unit=4&lesson=25)
- Lecture 12 : Demonstration-V (unit?unit=4&lesson=26)

Java Week 3: Q1

Due on 2020-02-20, 23:59 IST

This program is related to the generation of Fibonacci numbers.

For example: 0, 1, 1, 2, 3, 5, 8, 13,… is a Fibonacci sequence where 13 is the 8thFibonacci number. A partial code is given and you have to complete the code as per the instruction given as comments.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	1	0	0\n	Passed
Test Case 2	2	1	1\n	Passed
Test Case 3	3	1	1\n	Passed

Due Date Exceeded.
3 out of 3 tests passed.
You scored 100.0/100.

Your last recorded submission was :

```
1 import java.util.Scanner; //This package for reading input
2 public class Fibonacci {
3
4     public static void main(String args[]) {
5      Scanner sc = new Scanner(System.in);
6      int n=sc.nextInt(); //Read an integer
7         System.out.println(fib(n)); //Generate and print the n-th Fibonacci
8                                     //number
```

```
    }
 static int fib(int n) {

//complete the code segment to find the nth Fibonacci number in the Fibonacc
int f=0,f1=-1,f2=1;
for(int i=0;i<n;i++){
f=f1+f2;
  f1=f2;
  f2=f;

}
return f;
}
}
```

Sample solutions (Provided by instructor)

Select the Language . Java ▼

```
import java.util.Scanner; //This package for reading input
public class Fibonacci {

    public static void main(String args[]) {
     Scanner sc = new Scanner(System.in);
     int n=sc.nextInt(); //Read an integer
        System.out.println(fib(n)); //Generate and print the n-th Fibonacci
                                    //number
    }
 static int fib(int n) {

        if (n==1)      //Terminate condition
            return 0;
        else if(n==2)
            return 1;
        return fib(n - 1) + fib(n - 2); //Recursive call of function
}
}
```

Assignment Solution