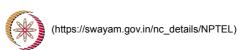
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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in Java (course)

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Java Week 5: Q2

Due on 2020-03-05, 23:59 IST

This program is to find the GCD (greatest common divisor) of two integers writing a recursive function findGCD (n1, n2). Your function should return -1, if the argument(s) is(are) other than positive number(s).

Course
outline

How does an NPTEL online course work?

Week 0:

Week 1:

Week 2:

Week 3 : Week 4 :

Week 5:

Lecture 21 :

(unit?

unit=6&lesson=35)

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	2 0	2	2	Pass ed
Test Case 2	-1 -1	-1	-1	Pass ed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-03-05, 23:03 IST

Your last recorded submission was :

```
import java.util.Scanner;
interface GCD {
    public int findGCD(int n1,int n2);
}
//Create a class B, which implements the interface GCD.
class B{
    public int findGCD(int n1,int n2){

    if(n1 < 0 || n2 < 0)
        return -1;
else if( n2 != 0 )
    return findGCD(n2,n1%n2);</pre>
```

```
else
 Lecture 22 :
                            15
                                     return n1;
   Demonstration-
                            16
                            17
   IX (unit?
                            18
                                public class Question5_2{
   unit=6&lesson=36)
                                          public static void main (String[] args){
   B a = new B(); //Create an object of class B
   // Read two numbers from the keyboard
                            20
 Lecture 23 :
                            21
                            22
23
                                                Scanner sc = new Scanner(System.in);
   Exception
                                                 int p1 = sc.nextInt();
int p2 = sc.nextInt();
   Handling-I
                            24
   (unit?
                            25
                                                System.out.print(a.findGCD(p1,p2));
                            26
   unit=6&lesson=37)
                            27
                            28
 Lecture 24 :
                          Sample solutions (Provided by instructor)
   Exception
   Handling-II
                          Select the Language . Java ▼
   (unit?
                                import java.util.Scanner;
   unit=6&lesson=38)
                                interface GCD {
   public int findGCD(int n1,int n2);
                              3
                              4
 Lecture 25 :
                              5
   Exception
                                class B implements GCD {
   Handling-III
                                      int n1, n2;
                             8
                                      //Create a method to calculate GCD
public int findGCD(int n1, int n2){
   unit=6&lesson=39)
                            10
                            11
                                           if(n1==0\&\& n2==0) {
 Quiz :
                            12
                                                return -1;
                            13
   Assignment 5
                                           else if(n2 == 0){
                            14
   (assessment?
                            15
                                                return n1;
   name=97)
                            16
                            17
                            18
 Java Week
                                           else {
                            19
                                                return findGCD(n2, n1%n2);
   5:Q1
                            20
   (/noc20 cs08/progassic
   name=133)
                            22
                                public class Question5_2{
                            23
                                           public static void main (String[] args){
   B a = new B(); //Create an object of class B
                            24
 Java Week 5:
                            25
                            26
                                                // Read two numbers from the keyboard
                                                Scanner sc = new Scanner(System.in);
int p1 = sc.nextInt();
   (/noc20 cs08/progass
                            27
                            28
   name=134)
                            29
                                                 int p2 = sc.nextInt()
                                                System.out.print(a.findGCD(p1,p2));
                            30
 Java Week 5:
                            31
                                      }
   Q3
                            32
                                }
   (/noc20 cs08/progassic
                            33
   name=135)
 Java Week 5:
   (/noc20 cs08/progassignment?
   name=136)
 Java Week 5:
   (/noc20 cs08/progassignment?
   name=137)

    Feedback For

   Week 5 (unit?
   unit=6&lesson=141)
Week 6:
Week 7:
```

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Assignment Solution