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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](https://swayam.gov.in/nd1_noc20_cs08/preview)) Ask a Question (forum)

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## Course outline

How does an NPTEL online course work?

Week 0 :

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

 ● Lecture 21 :  
Interface-II  
(unit?  
unit=6&lesson=35)

## 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).

| Private Test cases used for evaluation | Input    | Expected Output | Actual Output | Status |
|--|----------|-----------------|---------------|--------|
| Test Case 1                            | 2 0      | 2               | 2             | Passed |
| Test Case 2                            | -1<br>-1 | -1              | -1            | Passed |

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 :

```

1 import java.util.Scanner;
2
3 interface GCD {
4     public int findGCD(int n1,int n2);
5 }
6 //Create a class B, which implements the interface GCD.
7 class B{
8     public int findGCD(int n1,int n2){
9
10        if(n1 < 0 || n2 < 0)
11            return -1;
12        else if( n2 != 0 )
13            return findGCD(n2,n1%n2);

```

Lecture 22 :  
Demonstration-  
IX (unit?  
unit=6&lesson=36)

Lecture 23 :  
Exception  
Handling-I  
(unit?  
unit=6&lesson=37)

Lecture 24 :  
Exception  
Handling-II  
(unit?  
unit=6&lesson=38)

Lecture 25 :  
Exception  
Handling-III  
(unit?  
unit=6&lesson=39)

Quiz :  
Assignment 5  
(assessment?  
name=97)

Java Week  
5:Q1  
(/noc20\_cs08/progassign  
name=133)

Java Week 5:  
Q2  
(/noc20\_cs08/progass  
name=134)

Java Week 5:  
Q3  
(/noc20\_cs08/progassign  
name=135)

Java Week 5:  
Q4  
(/noc20\_cs08/progassignment?  
name=136)

Java Week 5:  
Q5  
(/noc20\_cs08/progassignment?  
name=137)

Feedback For  
Week 5 (unit?  
unit=6&lesson=141)

Week 6 :

Week 7 :

```

14     else
15         return n1;
16     }
17 }
18 public class Question5_2{
19     public static void main (String[] args){
20         B a = new B(); //Create an object of class B
21         // Read two numbers from the keyboard
22         Scanner sc = new Scanner(System.in);
23         int p1 = sc.nextInt();
24         int p2 = sc.nextInt();
25         System.out.print(a.findGCD(p1,p2));
26     }
27 }
28

```

Sample solutions (Provided by instructor)

Select the Language .  ▼

```

1 import java.util.Scanner;
2
3 interface GCD {
4     public int findGCD(int n1,int n2);
5 }
6 class B implements GCD {
7     int n1,n2;
8
9     //Create a method to calculate GCD
10    public int findGCD(int n1, int n2){
11        if(n1==0&& n2==0) {
12            return -1;
13        }
14        else if(n2 == 0){
15            return n1;
16        }
17
18        else {
19            return findGCD(n2, n1%n2);
20        }
21    }
22 }
23 public class Question5_2{
24     public static void main (String[] args){
25         B a = new B(); //Create an object of class B
26         // Read two numbers from the keyboard
27         Scanner sc = new Scanner(System.in);
28         int p1 = sc.nextInt();
29         int p2 = sc.nextInt();
30         System.out.print(a.findGCD(p1,p2));
31     }
32 }
33

```

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**Assignment  
Solution**