

Announcements





## Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1:

Week 2:

Week 3:

Week 4:

Week 5:

• Lecture 21 : Interface-II

• Lecture 22 : Demonstration-

● Lecture 23 : Exception

Handling-I

● Lecture 24 : Exception Handling-II

● Lecture 25 : Exception Handling-III

• Quiz: Assignment 5 Java Week 5:Q1

Java Week 5: Q2

Java Week 5: Q3

Java Week 5: Q4

|ava Week 5: Q5

Feedback For Week 5

Week 6:

Week 7:

Week 8:

Week 9:

Week 10:

Week 11:

Week 12: Solution

**Text Transcripts** 

DOWNLOAD VIDEOS

Programming Test - (April 11

- 10AM - 12 PM)

Programming Test - (April 11 - 8PM - 10 PM)

## Java Week 5: Q2

## Due on 2020-10-22, 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

Test Case 1

Test Case 2

Input	Expected Output	Actual Output	Status
2 0	2	2	Passed
-1 -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 2020-10-21, 14:45 IST

Your last recorded submission was

```
1 import java.util.Scanner;
        interface GCD {
    public int findGCD(int n1,int n2);
      public int findeco(ant algorithm)

//Create a class B, which implements the interface GCD.

class B implements GCD

{
public int findGCD(int n1,int n2)
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            if(n1 < 0 || n2 < 0)
return -1:
             else if( n2 != 0 )
return findGCD(n2,n1%n2);
else
                   return n1;
             }
      public class Question5_2{
   public static void main (String[] args){
    B a = new B(); //Create an object of class B
    // Read two numbers from the keyboard
   Scanner sc = new Scanner(System.in);
   int p1 = sc.nextInt();
   int p2 = sc.nextInt();
   System.out.print(a.findGCD(p1,p2));
}
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28 29 }
```

Sample solutions (Provided by instructor)

```
1 import java.util.Scanner;
        interface GCD {
   public int findGCD(int n1,int n2);
        }
class B implements GCD {
  int n1,n2;
                    //Create a method to calculate GCD
public int findGCD(int n1, int n2){
   if(n1==0&k n2==0) {
      return -1;
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                                else if(n2 == 0){
    return n1;
                                }
                               else {
   return findGCD(n2, n1%n2);
     }
public class Question5_2{
   public static void main (String[] args){
        B a = new B(); //Create an object of class B
        // Read two numbers from the keyboard
        Scanner sc = new Scanner(System.in);
        int p1 = sc.nextInt();
        int p2 = sc.nextInt();
        System.out.print(a.findGCD(p1,p2));
}
```