Java Week 5: Q2

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).

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Case 1</td>
<td>2 0</td>
</tr>
<tr>
<td>Test Case 2</td>
<td>-1 -1</td>
</tr>
<tr>
<td>Test Case 3</td>
<td>40 60</td>
</tr>
<tr>
<td>Test Case 4</td>
<td>-3 -1</td>
</tr>
</tbody>
</table>

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```java
import java.util.Scanner;

interface GCD {
    public int findGCD(int n1, int n2);
}

class B implements GCD {
    int n1,n2;

    public int findGCD(int n1, int n2) {
        if(n1==0&&n2==0) {
            return -1;
        } 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
    Scanner sc = new Scanner(System.in);
    int p1 = sc.nextInt();
    int p2 = sc.nextInt();
    System.out.print(a.findGCD(p1, p2));
}
Week 12:

- Download Videos
- Assignment Solution
- Books
- Live Interactive Session