Week-04 Program-03

Write a program to find the GCD (Greatest Common Divisor) of 2 (two) numbers using 'for' loop. The two numbers are taken as input from the test cases.

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Case 1</td>
<td>46 9</td>
</tr>
<tr>
<td>Test Case 2</td>
<td>15 75</td>
</tr>
<tr>
<td>Test Case 3</td>
<td>4 70</td>
</tr>
<tr>
<td>Test Case 4</td>
<td>10 5</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)

```c
#include <stdio.h>
int main()
{
    int x, y, GCD;
    scanf("%d %d", &x, &y); //Two numbers x and y are taken from the te:
    //You can use any other variable as required
    //The last part is already written
    int z;
    if (x>y)
```

Due on 2020-02-27, 23:59 IST
Statement (Contd.) and Introduction to Loops (unit? unit=5&lesson=32)

Lecture 19: Implementing Repetitions (Loops) (unit? unit=5&lesson=33)

Lecture 20: Implementation of Loops with for Statement (Contd.) (unit? unit=5&lesson=34)

Quiz: Assignment 4 (assessment? name=103)

Week-04 Program-01 (/noc20_cs06/progassignment? name=109)

Week-04 Program-02 (/noc20_cs06/progassignment? name=110)

Week-04 Program-03 (/noc20_cs06/progassignment? name=111)

Week-04 Program-04 (/noc20_cs06/progassignment? name=112)

Week-04 Program-05 (/noc20_cs06/progassignment? name=113)

Feedback For Week 4 (unit? unit=5&lesson=115)

Week 5

Week 6

Week 7

Week 8

Week 9

12    else
13        z=x;
14    }
15      z=y;
16      
17      for(GCD = z; GCD >= 1; GCD--)
18          
19          { // GCD is the greatest number that divides both the numbers
20              if(x%GCD == 0 && y%GCD == 0)
21                  break; // exits the loop
22          }
23          printf("GCD of the numbers %d and %d is %d", x, y,GCD);
24      return 0;
Week 10
Week 11
Week 12
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Assignment Solution