



# STUDENT REPORT

## DETAILS

Name

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Roll Number

22BI24EE410-T

## EXPERIMENT

Title

SIGNATURE FOR LCM

Description

Given two numbers a and b. Find the GCD and LCM of a and b.

Input:

- Two positive integers a and b ( $1 \leq a, b \leq 1000$ )

Output:

For GCD function, an integer representing the GCD of a and b

For LCM function, an integer representing the LCM of a and b

Sample Input:

12 18

Output:

6

36

Explanation:

The GCD of 12 and 18 is 6. The LCM of 12 and 18 is 36.

Source Code:

```
import math

def gcd(a, b):
    return math.gcd(a, b)

def lcm(a, b):
    return abs(a * b) // gcd(a, b)

# Input
a, b = map(int, input().split())

# Output
print(gcd(a, b)) # Output the GCD
print(lcm(a, b)) # Output the LCM
```

## RESULT

5 / 5 Test Cases Passed | 100 %