



# STUDENT REPORT

## DETAILS

### Name

SANJANA RAGHU

### Roll Number

3BR23CD085

## 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 (a * b) // gcd(a, b)

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

# Calculate GCD and LCM
gcd_value = gcd(a, b)
lcm_value = lcm(a, b)

print(gcd_value)
print(lcm_value)
```

## RESULT

5 / 5 Test Cases Passed | 100 %