Logo

STUDENT REPORT

DETAILS

Name

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Roll Number

KUB23CSE085

EXPERIMENT

Title

SIGNATURE FOR LCM

Description

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

Input:

• Two positive integers a and b ($1 <= a$, $b <= 1000$)

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:

```python
def gcd(a, b):
    while b:
        a, b = b, a % b
    return a

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

# Example usage
if __name__ == "__main__":
    a, b = map(int, input().split())
    gcd_result = gcd(a, b)
    lcm_result = lcm(a, b)

    print(gcd_result)
    print(lcm_result)
```

RESULT

5 / 5 Test Cases Passed | 100 %