

ALA-1

Code With Mistake Comments

```
print("GCD Finder")
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
i = 1
gcd = 0
while i <= a and i <= b:
    if a % i == 0 and b % i == 0:
        gcd = i
    i = i + 1
print("GCD:", gcd)
if gcd > 1:
```

```
print("Numbers are not co-prime")
else
print("Co-prime numbers")
lcm = (a * b) / gcd
print("LCM:", lcm)
```

Mistakes Explanation

1. Indentation Error (Very Important)

In Python, indentation is mandatory.

2. Missing Colon (:)

After else

3. LCM Formula Should Use Integer Division

4. Missing Closing Bracket in Last Print

Correct Code

```
print("GCD finder")
a = int(input("enter first number"))
b = int(input("enter the second number"))

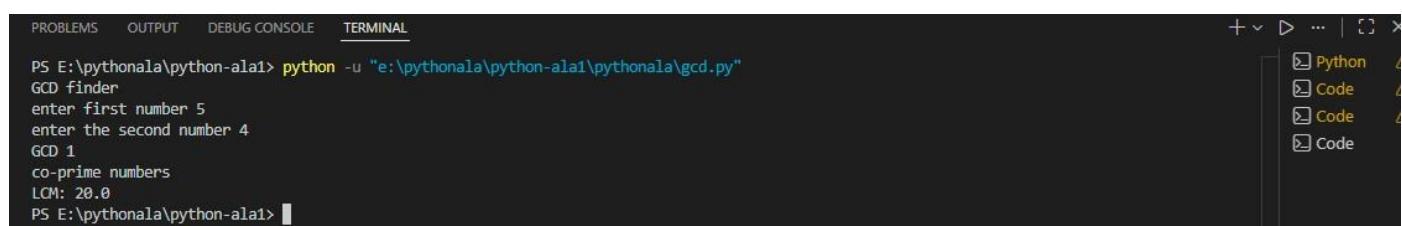
i = 1
gcd = 0
while i<=a and i<=b:
    if a%i == 0 and b%i ==0:
        gcd = i
    i = i+1

print("GCD",gcd)
if gcd>1:
    print("Number are not co-prime")

else:
    print("co-prime numbers")

lcm = (a*b)/gcd
print("LCM:",lcm)
```

output:



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
+ ✓ ⚡ ... | ⌂ ×
PS E:\pythonala\python-ala1> python -u "e:\pythonala\python-ala1\pythonala\gcd.py"
GCD finder
enter first number 5
enter the second number 4
GCD 1
co-prime numbers
LCM: 20.0
PS E:\pythonala\python-ala1>
```