3.write a program to find the GCD of two numbers using recursive factorization

```
PROGRAM:-
def gcd(a, b):
  if b == 0:
    return a
  return gcd(b, a % b)
num1 = 48
num2 = 18
print(f"The GCD of {num1} and {num2} is {gcd(num1, num2)}")
num1 = 48
num2 = 18
print(f"The GCD of {num1} and {num2} is {gcd(num1, num2)}")
output:-
```

```
The GCD of 48 and 18 is 6

=== Code Execution Successful ===
```

Time complexity:- O(log(min(a,b))