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

Aim: To find the GCD of two numbers using recursive factorization

Program:

```python
def gcd_recursive(a, b):
    if b == 0:
        return a
    else:
        return gcd_recursive(b, a % b)


num1 = 48
num2 = 18


result = gcd_recursive(num1, num2)
print(f"The GCD of {num1} and {num2} is: {result}")
```

Output:

```
The GCD of 48 and 18 is: 6

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

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