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

```
Program:
def gcd_recursive(a,b):
  if b==0:
     return a
  else:
     return gcd_recursive(b,a%b)
num1=10
num2=20
if num1<num2:
  num1,num2=num2,num1
gcd=gcd_recursive(num1,num2)
print("the gcd of",num1,"and",num2,"is",gcd)
Output:
C:\Users\srika\Desktop\CSAG
the gcd of 20 and 10 is 10
Process finished with exit code 0
Time complexity:
O(log n^2)
```