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

def GCD(a,b):

if b==0:

return a

else:

return GCD(b,a%b)

a=int(input("enter the first number: "))

b=int(input("enter the second number"))

result=GCD(a,b)

print(f"gcd of {a} and {b} is: ",result)

INPUT:

enter the first number: 2

enter the second number: 5

OUTPUT: gcd of 2 and 5 is: 1

TIME COMPLEXITY: O(n)