**EXERCISE: 11**

**DATE: 22.11.2020**

***AIM:***

To write a Python program to find the greatest common divisor (GCD) of two integers using recursion.

***PROGRAM:***

def gcd(a,b):

if(a==0):

return a

if(b==0):

return b

if(a==b):

return b

if(a>b):

return(gcd(a-b,b))

else:

return gcd(a,b-a)

a=int(input("Enter first number:"))

b=int(input("Enter second number:"))

GCD=gcd(a,b)

print("GCD is:")

print(GCD)

***LINK:***

[***http://103.53.53.18/mod/vpl/forms/submissionview.php?id=326&userid=1677***](http://103.53.53.18/mod/vpl/forms/submissionview.php?id=326&userid=1677)

***OUTPUT:***

***Text

Description automatically generated***

***RESULT:***

The greatest common divisor (GCD) of two integers using recursion is successfully obtained.