**Exercise No: 13**

**Date: 22-11-2020**

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**AIM:** To Write a Python program to find the greatest common divisor (gcd) of two integers using recursion.

**PROGRAM:**

def gcd(a, b):

commonFactor = []

if b == 0:

return a

else:

for i in range(1, min(a, b) + 1):

if a%i == 0 and b%i == 0:

commonFactor.append(i)

return commonFactor[-1]

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/edit.php?id=326&userid=1802#](http://103.53.53.18/mod/vpl/forms/edit.php?id=326&userid=1802)

**OUTPUT:**

Enter first number: 10

Enter second number: 20

GCD is:

10

**RESULT:** Thus, the Python program to find the greatest common divisor (gcd) of two integers using recursion is executed.