**Exercise No:** 11

**Date:** 20.11.2020

**Aim:**

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

**Program:**

def gcd(x,y):

gcd=1

if x%y==0:

return y

for k in range(int(y/2),0,-1):

if x%k==0 and y%k==0:

gcd=k

break

return gcd

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

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

if a==0 and b==0:

GCD=0

else:

GCD =gcd(a,b)

print("GCD is: ")

print(GCD)

**Link:**

<http://103.53.53.18/mod/vpl/forms/submissionview.php?id=326&userid=1633>

**Output:**

Enter first number:2

Enter second number:5

GCD is:

1  **Result:**

A Python program to find the greatest common divisor (gcd) of two integers using recursion is obtained.