**Exercise No:** 11

**Date:** 19.11.2020

**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

return 0

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=1764**](http://103.53.53.18/mod/vpl/forms/submissionview.php?id=326&userid=1764)

**Output:**

Enter first number:3

Enter second number:4

GCD is:

1

**Result:**

The GCD of two integers using Recursion is successfully obtained