**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(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("Entersecond number:"))

GCD=gcd(a,b)

print("GCD is:")

print(GCD)

**Link:**

<http://103.53.53.18/mod/vpl/forms/edit.php?id=326&userid=1776>

**Output:**

Enter first number:23

Enter second number:56

GCD is:1

Enter first number:10

Enter second number:20

GCD is:10

**Result:**

Thus, the greatest common divisor of two integer is calculated and the result is displayed.