Exercise No: 11

Date:24/11/2020

Aim:

To find the greatest common divisor (gcd) of two integers using recursion.

Program:

defgcd(a,b):

if(a == 0):

return b

if(b == 0):

return a

if(a == b):

return a

if(a > b):

return gcd(a-b, b)

return gcd(a, b-a)

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

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

GCD = gcd(a,b)

print("GCD is: ", GCD)

Link:

http://103.53.53.18/mod/vpl/forms/edit.php?id=326&userid=1798

output:

I/P:

Enter the first number : 98

Enter the second number : 56

O/P:

GCD is : 14

Result:

The program executed and the output are obtained successfully and verified.