**EXERCISE: 11**

**DATE: 23.11.2020**

**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("Enter second number:"))*

*GCD=gcd(a,b)*

*print("GCD is:")*

*print(GCD)*

**LINK:**

[**http://103.53.53.18/mod/vpl/forms/submissionview.php?id=326&userid=1661**](http://103.53.53.18/mod/vpl/forms/submissionview.php?id=326&userid=1661)

**OUTPUT:**

*Enter first number:8*

*Enter second number:2*

*GCD is:*

*2*

**RESULT:**

The greatest common divisor (GCD) of two integers using recursion is successfully obtained.