**EXERCISE: 11**

**DATE: 22.11.2020**

**AIM:**

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

**PROGRAM:**

**def gcd(a,b):**

**gcd = 1**

**if a%b == 0:**

**return b**

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

**if a%k ==0 and b%k == 0:**

**gcd = k**

**break**

**return gcd**

**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/edit.php?id=326&userid=1699**](http://103.53.53.18/mod/vpl/forms/edit.php?id=326&userid=1699)

**OUTPUT:**

**![Text

Description generated with high confidence]()**

**RESULT:** The oputput for the given class diagram is obtained successfully.