Exercise: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("Enter second number:"))
GCD=gcd(a,b)
print("GCD is:")
print(GCD)
```

MOODLE LINK:

http://103.53.53.18/mod/vpl/forms/edit.phy?id=326&userid=1794#

OUTPUT:

```
Console: connection closed (Running: 7 seg)

Enter first number:3
Enter second number:5
6CD is:
1
```

RESULT:

The program to find the greatest common divisor (gcd) of two integers using recursion is executed and output is verified