EX.NO:-
DATE:-

COMPUTE GCD OF TWO NUMBERS.

AIM:-

To find the GCD of two numbers.

ALGORITHM:-

Step 1:- Get 2 integer inputs from the user.
Step 2:- Use decision making statements or use recursion to check if both the given numbers are divisible by any number 'i' without leaving any remainder.
Step 3:- If the above statement is True, then GCD = 'i'
Step 4:- Print the GCD of the two numbers.
Step 5:- End the program.

SOURCE CODE:-

```
def gcd(a,b):
    if (b==0):
        return a
    else:
        return gcd(b, a%b)
a = int (input("Enter num 1"))
b = int (input("Enter num 2"))
GCD = gcd(a, b)
```

```
print("GCD is:")
print(GCD)
```

Output:-

```
Enter first number: 24
Enter second number: 30
GCD is:
6
```

Result:-

The above program is executed successfully and the result is observed.

```
1  #GCD of 2 Numbers
2  def gcd(a,b):
3      if(b==0):
4          return a
5      else:
6          return gcd(b,a%b)
7  a=int(input("Enter first number:"))
8  b=int(input("Enter second number:"))
9  GCD=gcd(a,b)
10 print("GCD is:")
11 print(GCD)
12
```

```
Enter first number:24
Enter second number:30
GCD is:
6
> 
```