**/\*Write a recursive program to find Greatest Common Division GCD of two numbers.\*/**

**#include <iostream>**

**using namespace std;**

**int hcf(int n1, int n2)**

**{**

**if (n2 != 0)**

**return hcf(n2, n1 % n2);**

**else**

**return n1;**

**}**

**int main()**

**{**

**int n1, n2;**

**cout<<"Enter first positive integer: ";**

**cin>>n1;**

**cout<<"\nEnter second positive integer: ";**

**cin>>n2;**

**cout<<"\nG.C.D of "<<n1<<" and "<<n2<<" is "<<hcf(n1, n2)<<endl;**

**return 0;**

**}**

**/\*Write a recursive program to find Greatest Common Division GCD of two numbers.\*/**

**#include <iostream>**

**using namespace std;**

**int gcd(int num1, int num2)**

**{**

**if (num2 == 0)**

**return num1;**

**else**

**return gcd(num2, (num1 % num2));**

**}**

**int main()**

**{**

**int num1, num2;**

**cout << "Enter two numbers : ";**

**cin >> num1 >> num2;**

**cout << "GCD of " << num1 << " and " << num2 << " is : " << gcd(num1, num2);**

**cout << endl;**

**}**

**/\*Write a recursive program to find Greatest Common Division GCD of two numbers.\*/**

**#include <iostream>**

**using namespace std;**

**int gcd(int n1, int n2);**

**int main()**

**{**

**int n1,n2;**

**cout<<"Enter two positive integers: ";**

**cin>>n1>>n2;**

**cout<<"GCD of "<<n1<<" & "<<n2<<" is: "<< gcd(n1, n2);**

**return 0;**

**}**

**int gcd(int n1, int n2)**

**{**

**if (n2 != 0)**

**return gcd(n2, n1 % n2);**

**else**

**return n1;**

**}**

**/\*Write a recursive program to find Greatest Common Division GCD of two numbers.\*/**

**#include<iostream>**

**using namespace std;**

**class GCD**

**{**

**public:**

**int common\_divisor(int n1,int n2)**

**{**

**if(n1==n2)**

**{**

**return n1;**

**}**

**else if (n1>n2)**

**{**

**return common\_divisor(n1-n2,n2);**

**}**

**else**

**{**

**return common\_divisor(n1,n2-n1);**

**}**

**}**

**};**

**int main()**

**{**

**int number1,number2;**

**cout<<"Enter first integer:\t";**

**cin>>number1;**

**cout<<"Enter second integer:\t";**

**cin>>number2;**

**GCD g;**

**cout<<endl<<"greatest common divisor of "<<number1<<" and "<<number2<<" is "<<g.common\_divisor(number1,number2);**

**}**