```
/*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);
}
```