GCD of Two Numbers

GCD (Greatest Common Divisor) or HCF (Highest Common Factor) of two numbers is the largest number that divides both of them.

```
Program to find GCD or HCF of two numbers
36 = 2 \times 2 \times 3 \times 3
60 = 2 \times 2 \times 3 \times 5
GCD = Multiplication of common factors
= 2 \times 2 \times 3
= 12
\overrightarrow{DG}
```

For example, GCD of 20 and 28 is 4 and GCD of 98 and 56 is 14.

```
#include<iostream>
using namespace std;

int main()
{
    int a, b;
    cin >> a >> b;

    int x = min(a,b);
    int ans = 1;

    for(int i = 1; i<=x; i++){
        if(a%i==0 and b%i==0)
            ans = i;
    }
    cout << ans;
    return 0;
}</pre>
```

INPUT:

GCD of Two Numbers

15 6

OUTPUT:

3

GCD of Two Numbers 2