

GCD of 2 Numbers in Java

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

Example:

Input: a = 10, b = 15

Output: GCD of 10 and 15 is 5.

Input: a = 36, b = 60

Output: GCD of 36 and 60 is 12.



// Java Program to calculate HCF

```
import java.util.Scanner;
```

```
class Gfg {  
    public static void main(String[] args) {  
        int a = 10;  
        int b = 15;  
        int ans = 1;  
        int x = Math.min(a, b);  
        for (int i = 1; i <= x; i++) {  
            if (a % i == 0 && b % i == 0) {  
                ans = i;  
            }  
        }  
        System.out.println("GCD of " + a + " and " + b  
            + " is " + ans);  
    }  
}
```

Output

GCD of 10 and 15 is 5