

```
1  // Ch 6 Demo Euclid's GCD algorithm
2
3  import java.io. BufferedReader ;
4  import java.io. InputStreamReader ;
5  import java.io. IOException ;
6
7  public class Ch6DemoEuclidsGCD
8  {
9      public static void main (String [] args) throws IOException
10     {
11         BufferedReader console = new BufferedReader (new
12             InputStreamReader (System.in));
13         System.out.print ("Please enter an integer: " );
14         String input1 = console.readLine ();
15
16         System.out.print ("\nPlease enter another integer: " );
17         String input2 = console.readLine ();
18
19         int num1 = Integer.parseInt (input1);
20         int num2 = Integer.parseInt (input2);
21
22         int rem = 1;
23         int gcd = 0;
24
25         while (rem != 0)
26         {
27             rem = num1 % num2;
28
29             if (rem == 0)
30             {
31                 gcd = num2;
32             }
33             else
34             {
35                 num1 = num2;
36                 num2 = rem;
37             }
38         }
39
40         System.out.println ("\nThe greatest common divisor is: " + gcd);
41     }
42 }
```