

```
1 package lcm;
2 //importing scanner to collect input
3 import java.util.Scanner;
4 public class Lcm {
5     public static void main(String[] args) {
6         //setting scanner
7         Scanner input = new Scanner(System.in);
8         // asking the user to enter the number of numbers that will be
use in the calculation fo the lcm
9         System.out.print("how many numbers do you want to use in your
calculation of lcm ");
10        // collecting user respons
11        int enter = input.nextInt();
12        // creating an array setting the array to save the defined
number of numbers to be used in ythe calculation
13        int [] numbers = new int [enter];
14        //creata loop to collect numbers according the defined size of
array
15        for (int k =0; k < enter ;k++){
16            System.out.print(" enter "+(k+1)+":");
17            numbers[k]=input.nextInt();
18        }
19        //set the initial lcm to the first number in the array
20        int l_c_m = numbers[0];
21        //set thr rest of the remaining numbers in the array and
calculate the lcm of all the numbers
22        for (int k =1; k < enter ;k++){
23            l_c_m = l_c_m*numbers[k]/gcd(l_c_m,numbers[k]);
24        }
25        //printing output
26        System.out.print("The LCM of of the input numbers is : "+l_c_m);
27    }
28    //a fuction to calculate greatest common divisor
29    private static int gcd (int a, int b){
30        if (b==0)
31            return a;
32        return gcd(b,a%b);
33    }
34
35 }
```