C:/Users/perfect/Desktop/hcf/src/hcf/Hcf.java

```
1 package hcf;
 2 //importing scanner to collect input
3 import java.util.Scanner;
 4 public class Hcf {
       public static void main(String[] args) {
           //setting scanner
7
           Scanner input = new Scanner(System.in);
           // asking the user to enter the number of numbers that will be
use in the calculation fo the lcm
           System.out.print("how many numbers do you want to use in your
calculation of hcf ");
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 h c f = numbers[0];
21
           //set thr rest of the remaining numbers in the array and
calculate the hcf of all the numbers
22
           for (int k = 1; k < enter ; k++) {
23
               h c f = gcd(h c f, numbers[k]);
24
           }
25
           //printing output
26
           System.out.print("The HCF of of the input numbers is :"+h c f);
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 }
```

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