**5 . import java.util.Scanner;**

**import java.io.\*;**

**class GCD**

**{**

**static int gcd(int x, int y)**

**{**

**int r=0, a, b;**

**a = (x > y) ? x : y; // a is greater number**

**b = (x < y) ? x : y;**

**r = b;**

**while(a % b != 0)**

**{**

**r = a % b;**

**a = b;**

**b = r;**

**}**

**return r;**

**}**

**static int lcm(int x, int y)**

**{**

**int a;**

**a = (x > y) ? x : y; // a is greater number**

**while(true)**

**{**

**if(a % x == 0 && a % y == 0)**

**return a;**

**++a;**

**}**

**}**

**public static void main(String args[])**

**{**

**try**

**{**

**Scanner sc = new Scanner(System.in);**

**System.out.println("Enter N value: ");**

**int N=sc.nextInt();**

**if(N==2)**

**{**

**System.out.println("Enter the two numbers: ");**

**int x = sc.nextInt();**

**int y = sc.nextInt();**

**System.out.println("The GCD of two numbers is: " + gcd(x, y));**

**System.out.println("The LCM of two numbers is: " + lcm(x, y));**

**}**

**if(N==3)**

**{**

**System.out.println("Enter the three numbers: ");**

**int x = sc.nextInt();**

**int y = sc.nextInt();**

**int z = sc.nextInt();**

**int i;**

**int a=Math.max(x,Math.max(y,z));**

**while(true)**

**{**

**if(a % x == 0 && a % y == 0 && a%z==0)**

**{**

**break;**

**}**

**else**

**++a;**

**}**

**System.out.println("LCM of "+x+", "+y+" and "+z+" is "+a);**

**int b=Math.min(x,Math.min(y,z));**

**for(i=b;i>=0;i--)**

**{**

**if((x%i==0) && (y%i==0) && (z%i==0))**

**break;**

**}**

**System.out.println("GCD of "+x+", "+y+" and "+z+" is "+i);**

**}**

**}**

**catch(Exception e)**

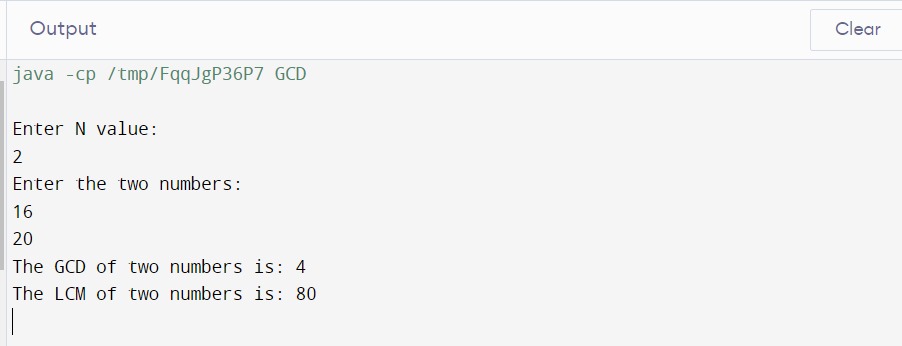
**{**

**System.out.println("Enter only numbers");**

**}**

**}**

**}**

****