**Problem 4:**

**Problem Statement-**

2 bikers honk at a given interval of time so find the Number of times Bikers entertain(when they honk at the same time) the public in a given time

**Example-**

Interval1 – 10Sec,

Interval 2- 25 Sec

Journey Time - 200 Sec

Output - 4

**Constraints-**

time >0

interval > 0

**Solution:**

import java.util.Scanner;

public class BikersHonk {

   public static void main(String[] args) {

    Scanner scanner = new Scanner(System.in);

    int interval1= scanner.nextInt();

    int interval2 = scanner.nextInt();

    int journeyTime = scanner.nextInt();

    int result = journeyTime/ lcm(interval1, interval2);

    System.out.println(result);

    scanner.close();

   }

    // if we note the pattern the bikers honk after the LCM interval of both the given intervals

    public static int gcd(int interval1, int interval2){

        while(interval2 != 0){

            int temp = interval2;

            interval2 = interval1 % interval2;

            interval1 = temp;

        }

        return interval1;

    }

    public static int lcm(int interval1, int interval2){

        return (interval1/gcd(interval1, interval2)\*interval2);

    }

}