**Day 18 coding Statement: Write a program to Add two fractions**

**Description**

Get the values for numerator and denominator of two fractions, then add that fractions. Consider the following format

x3/y3 = (x1/y1) + (x2/y2)

here x3 = (x1\*y2) + (x2\*y1) and y3 = (y1\*y2)

**Input**

2  3

4  3

**Output**

2/1

**Code:**

import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.util.ArrayList;

class Day\_18 {

    public static void main(String[] args) {

        int x1, y1, x2, y2, x3, y3;

        ArrayList<Integer> arr = new ArrayList<>();

        for (int i = 1; i <= 2; i++) {

            System.out.print("Enter Values for x" + i + " and y" + i + " separated by space :");

            BufferedReader BIS = new BufferedReader(new InputStreamReader(System.in));

            String[] twoNums = new String[2];

            try {

                twoNums = BIS.readLine().split(" ");

                arr.add(Integer.parseInt(twoNums[0]));

                arr.add(Integer.parseInt(twoNums[1]));

            } catch (Exception e) {

                System.out.println("Please Enter numeric value separed by one space only \n" + " Error" + e);

                return;

            }

        }

        x1 = arr.get(0);

        y1 = arr.get(1);

        x2 = arr.get(2);

        y2 = arr.get(3);

        x3 = (x1 \* y2) + (x2 \* y1);

        y3 = (y1 \* y2);

        int temp;

        if (x3 > y3) {

            temp = x3;

        } else {

            temp = y3;

        }

        for (int i=temp;i>0;i--)

        {

            if(x3%i==0 && y3%i==0)

            {

                x3=x3/i;

                y3=y3/i;

            }

        }

        System.out.println(x3 + "/" + y3);

    }

}

**Output:**

