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 \le 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:

```
C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_18\Java>javac Day_18.java

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_18\Java>java Day_18

Enter Values for x1 and y1 separated by space :2 3

Enter Values for x2 and y2 separated by space :4 3

2/1
```