

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

Program:

```
import java.util.*;
public class Day18 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int x1 = sc.nextInt();
        int y1 = sc.nextInt();
        int x2 = sc.nextInt();
        int y2 = sc.nextInt();

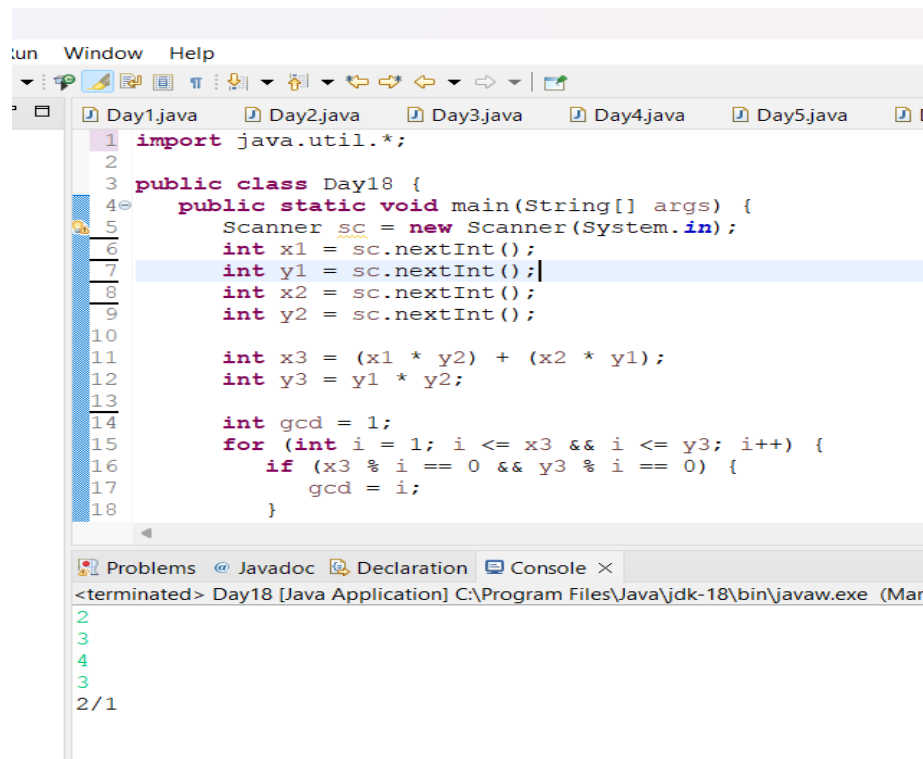
        int x3 = (x1 * y2) + (x2 * y1);
        int y3 = y1 * y2;

        int gcd = 1;
        for (int i = 1; i <= x3 && i <= y3; i++) {
            if (x3 % i == 0 && y3 % i == 0) {
                gcd = i;
            }
        }

        x3 /= gcd;
        y3 /= gcd;

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

Output:



The screenshot shows an IDE with a Java file named Day18.java. The code is as follows:

```
1 import java.util.*;
2
3 public class Day18 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         int x1 = sc.nextInt();
7         int y1 = sc.nextInt();
8         int x2 = sc.nextInt();
9         int y2 = sc.nextInt();
10
11         int x3 = (x1 * y2) + (x2 * y1);
12         int y3 = y1 * y2;
13
14         int gcd = 1;
15         for (int i = 1; i <= x3 && i <= y3; i++) {
16             if (x3 % i == 0 && y3 % i == 0) {
17                 gcd = i;
18             }
19         }
20
21         x3 /= gcd;
22         y3 /= gcd;
23
24         System.out.println(x3 + "/" + y3);
25     }
26 }
```

The IDE also shows the output in the console:

```
<terminated> Day18 [Java Application] C:\Program Files\Java\jdk-18\bin\javaw.exe (Mar
2
3
4
3
2/1
```