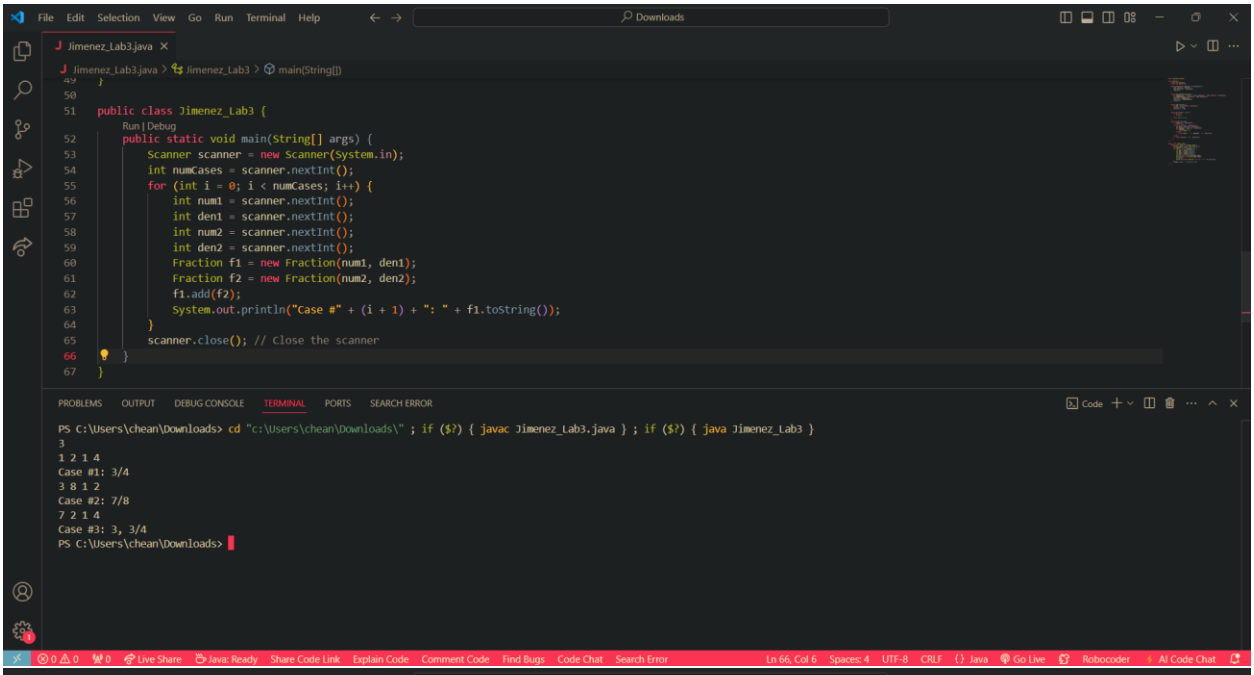
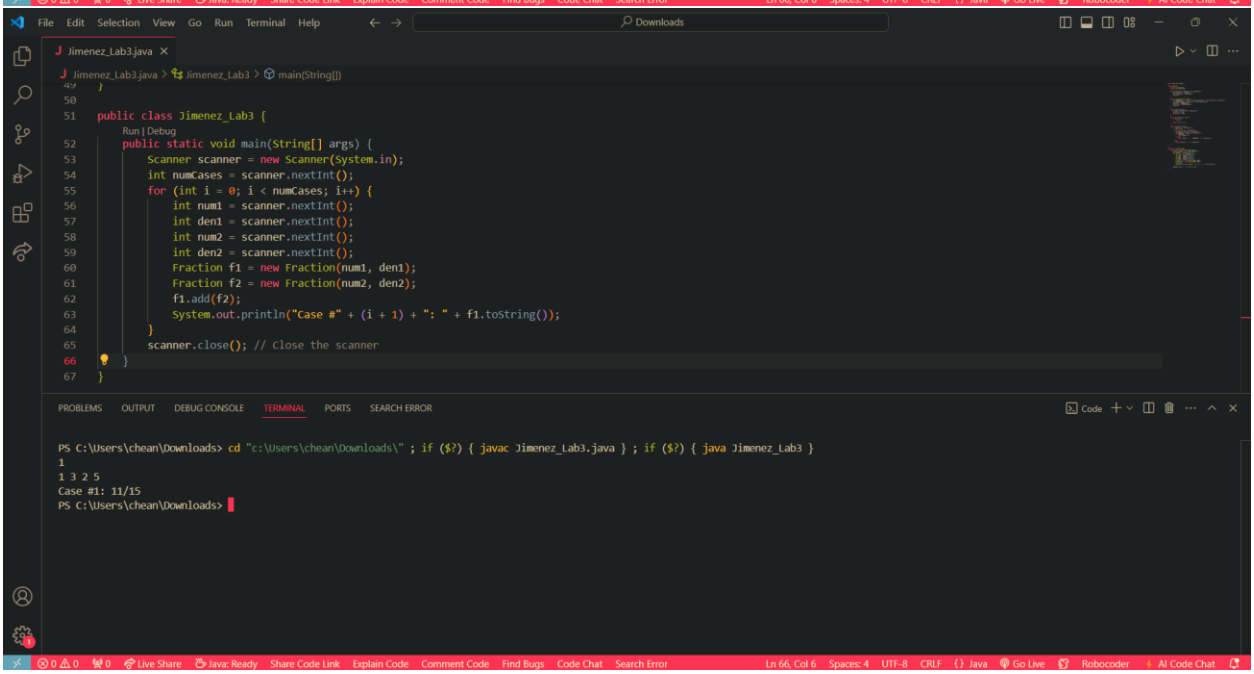
Sample Screenshots:





Source Code:

```
import java.util.Scanner;

class Fraction {
  private int numerator;
  private int denominator;

  public Fraction(int numerator, int denominator) {
    this.numerator = numerator;
    this.denominator = denominator;
    simplify();
  }

  public void add(Fraction other) {
    int newNumerator = numerator * other.denominator + other.numerator * denominator;
    int newDenominator = denominator * other.denominator;
    numerator = newNumerator;
    denominator = newDenominator;
    simplify();
  }

  public void simplify() {
    int gcd = gcd(numerator, denominator);
    numerator /= gcd;
    denominator /= gcd;
  }

  public int gcd(int a, int b) {
    if (b == 0) {
```

```
        return a;
      }
      return gcd(b, a % b);
    }

    public String toString() {
      if (numerator == denominator) {
        return "1";
      } else if (numerator > denominator) {
        int whole = numerator / denominator;
        int remainder = numerator % denominator;
        if (remainder == 0) {
          return whole + "";
        } else {
          return whole + ", " + remainder + "/" + denominator;
        }
      } else {
        return numerator + "/" + denominator;
      }
    }
}

public class Jimenez_Lab3 {
    public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      int numCases = scanner.nextInt();
      for (int i = 0; i < numCases; i++) {
        int num1 = scanner.nextInt();
        int den1 = scanner.nextInt();
```

```
        int num2 = scanner.nextInt();
        int den2 = scanner.nextInt();
        Fraction f1 = new Fraction(num1, den1);
        Fraction f2 = new Fraction(num2, den2);
        f1.add(f2);
        System.out.println("Case #" + (i + 1) + ": " + f1.toString());
      }
      scanner.close(); // Close the scanner
    }
}
```