

Sadia Alam

Professor Sudipta Chattopadhyay

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Key decisions for the Solitaire Project:

Object-oriented programming language	Java
GUI library	Java Swing
IDE (Integrated Development Environment)	IntelliJ IDEA
xUnit framework	JUnit5
Programming style guide	Google Java Style Guide
Project hosting site	Github.com
Other decisions	Exception handling, MVC architecture

Unit testing

I have a very simple program that does addition and subtraction. Below is the screenshot of the passed unit test.

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project View:** Shows the project structure with files like `SimpleCalculator.java`, `Main.java`, and `SimpleCalculatorTest.java`.
- Code Editor:** Displays the `SimpleCalculatorTest.java` file containing the following code:

```

5  class SimpleCalculatorTest {
6      @Test
7      void ThreePlusFourEqualsSeven() {
8          var calculator = new Simplecalculator();
9          assertEquals( expected: 4, calculator.add( a: 2, b: 2));
10     }
11
12     @Test
13     void TwoPlusTwoEqualsFour() {
14         var calculator = new Simplecalculator();
15         assertEquals( expected: 4, calculator.add( a: 2, b: 2));
16     }
17
18     @Test
19     void FiveMinusTwoEqualsThree() {
20         var calculator = new Simplecalculator();
21         assertEquals( expected: 3, calculator.subtract( a: 5, b: 2));
22     }
23
24     @Test
25     void ThreeMinusThreeEqualsZero() {
26         var calculator = new Simplecalculator();
27         assertEquals( expected: 0, calculator.subtract( a: 3, b: 3));
28     }
29
30 }
31

```

- Run Tab:** Shows the test results for `SimpleCalculatorTest`:
 - Tests passed: 4 of 4 tests – 11 ms
 - Test cases: `ThreePlusFourEqualsSeven()`, `TwoPlusTwoEqualsFour()`, `FiveMinusTwoEqualsThree()`, `ThreeMinusThreeEqualsZero()`
 - Java command: `/Users/sadiaalam/Library/Java/JavaVirtualMachines/openjdk-23.0.2/Contents/Home/bin/java ...`
 - Process finished with exit code 0

GUI program

I wrote a GUI program that display the menu of a cafe. It asks about the pizza size, number, toppings and soda types and numbers.

