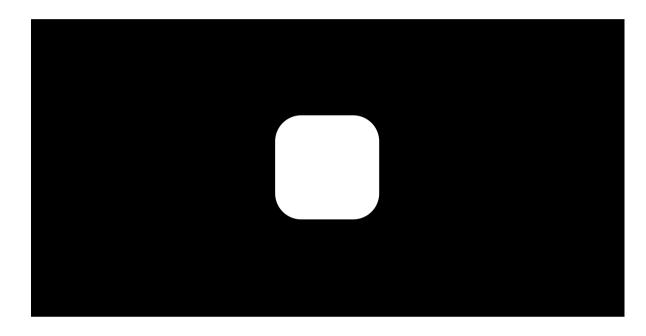
<u>Instructional Team</u> Office Hours **Discussion** <u>Course</u> <u>Progress</u> <u>Dates</u> (1) ☆ Course / Lesson 1: Advanced Testing / Lesson 1 Content Previous Next > **Part 8: Unit testing Adder and Subtracter Classes** ☐ Bookmark this page

Part 8: Unit testing Adder and Subtracter Classes

Let's begin our tests with unit testing the Adder and Subtracter classes. Recall that unit testing involves testing a single unit of code. This usually means testing a single class all by itself: without involving any other class.

If we can define the correct behavior of a single class and test it in isolation from any other code, then if our unit test fails we know it's because of a failure in that specific class: if we've written a test that only uses Adder and not Subtracter, then we know that if that test fails it is because of a problem in the Adder class, something that is not related with its interaction with other classes (interaction between classes is covered by integration testing).

Unit Testing the Operators



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Let's jump right in with Unit Test for adder and subtractor.

So we've created a [? test ?] [? op ?] [? high ?] file.

And in that, we're going to begin by importing all the things that we need.

Adder, subtractor, multiplier, and divider.

And then for each set of tests that we

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Unit testing is a good solution for the Adder and Subtracter classes: Adder and Subtracter don't make use of any other classes. But just creating a Calculator instance requires creating an Adder, a Subtracter, a Multiplier, and a Divider: how can we possible devise unit tests for Calculator that don't involve those other classes at all, so that the class can be kept isolated for testing purposes?

To answer this question, we introduce a new tool library: *mock*.

Unit Testing the Calculator



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[MUSIC PLAYING]





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