

# Starting with a Canary Test

## We'll cover the following ^

- Canary test
- Test by changing the expression

## Canary test #

A canary test is a test that asserts that `true` is equal to `true`. That sounds silly, as it appears that such a test isn't doing much, but starting with a canary test is a good way to verify that the project is set up properly with the necessary tools. If we run into any errors at this stage, it's easier to ask for help, in a team setting, from just about anyone who knows the tools.

From the design diagram we saw in [The Code Under Test](#), the `AirportTest` is a good starting point. Let's create a test suite, using `KotlinTest`, with just one test in it.

### Practice Along by Starting with a Sample Project

The best way to gain a deeper understanding of writing tests is to practice. To make it easier for you, the source code repository contains an `airportapp` directory that has both the Gradle and Maven build files. On your system, change to the `airportapp` directory and create your files there, using the subdirectory names and files specified in the text in this chapter. Since we'll be evolving code incrementally using tests, if you click on the links above the code listings in this chapter, you'll see the partial code instead of the complete code.

Create a file named `AirportTest.kt` under the `src/test/kotlin/com/agiledeveloper/airportstatus` directory.

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The `KotlinTest` library comes with a few different assertion options, and in the code we use the `shouldBe` function to assert. Test suites written using `KotlinTest` inherit from one of the base classes from the `KotlinTest` library, the simplest of which is a `StringSpec`, which provides a nice way to describe the specifications—that is, the tests. We inherit the `AirportTest` class from `KotlinTest`'s `StringSpec` class. Within the class, we write tests inside a lambda passed to the `init()` method, using a very flexible syntax—a string to represent a test method name and a lambda to hold the body of the test. The `KotlinTest` library provides a few variations in syntax to define tests, but the structure we're using is useful, as we'll see soon, to define pre- and post-operations to run before and after each test.

The Kotlin idiomatic style shines here. `KotlinTest` has injected the `String` class with an extension function, `invoke()`. This allows us to treat an arbitrary `String` like it's a function name. So to define a test, we merely key in a string to describe the test, and pass a lambda with the test body as argument to that string—nice syntax.

Also, the `shouldBe` assert function is declared in `KotlinTest` as an infix function, so we can omit the dot and parenthesis when invoking that function.

## Test by changing the expression #

Once you save the file, either run the Gradle build file like you saw in [Setting Up Gradle](#), or the Maven build file like you saw in [Setting Up Maven](#). Irrespective of which build tool you used, you should see a build success message, indicating that the canary test passed.

To verify things are really working well, change the first `true` in the expression `true shouldBe true` to `false`, like so: `false shouldBe true`. Run the test again and watch it fail—that confirms the tool is set up properly and doing its job. Change `false` to `true` again, and verify the test is passing.

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Now that we know the environment is set up properly, let's move forward to write some real tests in the next lesson.