Parameterized Test with @CsvFileSource

This lesson demonstrates the use of @CsvFileSource to pass different arguments to @ParameterizedTest.

we'll cover the following ^
• @CsvFileSource

@CsvFileSource

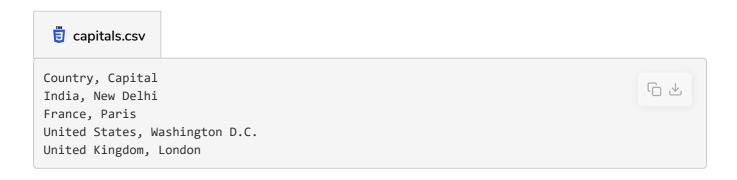
@CsvFileSource allows you to use CSV files from the classpath. This csv file gets picked up from the classpath at the time of running test case and each line from a CSV file results in one invocation of the parameterized test. We can also provide a number of lines to skip from top to take comma-separated values.

Let's look at a demo.

Step 1 - Let's assume that we have to write a parameterized test that takes values from <code>@CsvFileSource</code>.

Step 2 - We create a csv file by name, capitals.csv. It has comma-separated values of countries and their capitals.

Step 3 - We will keep this csv file on the classpath.



Step 4 - We create a test class by name, CsvFileSourceTest.java.

Step 5 - It contains a test method by name, testWithCsvFileSource method. In

order to provide different parameters/values to the same test method, this method is marked as <code>@ParameterizedTest</code> instead of <code>@Test</code>.

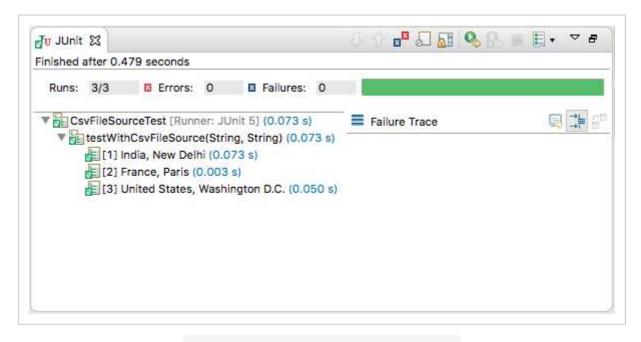
Step 6 - In order to provide different and multiple values through csv file source we mark this test method with <code>@CsvFileSource</code> annotation. This annotation takes <code>resources</code> which is the path to the csv file and <code>numLinesToSkip</code> which an integer value, to let test method skip those many lines while providing arguments to <code>@ParameterizedTest</code>.

Let's see the test class below.

```
package com.hubberspot.junit5.parameterized;
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.params.ParameterizedTest;
import org.junit.jupiter.params.provider.CsvFileSource;

class CsvFileSourceTest {

    @ParameterizedTest
    @CsvFileSource(resources = "/capitals.csv", numLinesToSkip = 1)
    void testWithCsvFileSource(String country, String capital) {
        assertNotNull(country);
        assertNotNull(capital);
    }
}
```



Output of @ParameterizedTest demo

Above image demonstrates the working of <code>@ParameterizedTest</code>. As we have provided 4 different csy file source values which are comma-separated, so the

first argument to test method is a String which is country and second

argument is a String which is capital, therefore the test case ran 4 times. Also, all string values provided by csv file source are not null, therefore

assertNotNull passes for all values passed.

In the next lesson we will be studying Assumptions in Junit 5.