fail() method

This lesson demonstrates the importance of the fail method in JUnit 5 Assertions API.

we'll cover the following ^
• fail() method

fail() method

Assertions API provide static <code>fail()</code> method. As soon as, any <code>@Test</code> method encounters <code>fail()</code> static method, it will fail the test case. The primary usages of <code>fail()</code> method are as follows -

- It gives a piece of meaningful information to the programmer writing a test, that test case is in progress and still needs to be implemented.
- It can be used to verify that an actual exception is thrown. Usually based on some input when test case expects an exception at a certain line, providing fail() below that line will verify that exception was not thrown as code execution reached fail() method line. Thus, it explicitly fails the test case.

There are basically five useful overloaded methods to fail:-

```
public static void fail()

public static void fail(String message)

public static void fail(Supplier<String> messageSupplier)

public static void fail(Throwable throwable)

public static void fail(String message, Throwable throwable)
```

```
package io.educative.junit5;
import static org.junit.jupiter.api.Assertions.fail;
```

```
import org.junit.jupiter.api.Test;
public class FailAssertionDemo {
        // usage 1 - @Test not implemented with fail()
        public void testMethodYetNotImplemented() {
                fail();
        }
        // usage 2 - @Test not implemented with fail(String message)
        @Test
        public void testMethodYetNotImplemented1() {
                fail("@Test method not yet implemented !!!");
        }
        // usage 3 - @Test not implemented with fail(Supplier<String> messageSupplier)
        public void testMethodYetNotImplemented2() {
                fail(() -> "@Test method not yet implemented !!!");
        }
        // usage 4 - @Test not implemented with fail(Throwable throwable)
        @Test
        public void testMethodYetNotImplemented3() {
                fail(new RuntimeException("@Test method not yet implemented !!!"));
        }
        // usage 5 - @Test not implemented with fail(String message, Throwable throwable)
        @Test
        public void testMethodYetNotImplemented4() {
                fail("@Test method not yet implemented !!!", new RuntimeException("Failed exp
        }
        // usage 6 - It can be used to verify that an actual exception is thrown
        public void testActualExceptionThrown() {
                try {
                        methodThatShouldThrowException();
                        fail("Exception not thrown !!!");
                } catch (UnsupportedOperationException e) {
                        // test case passed
                }
        }
        private void methodThatShouldThrowException() {
                throw new UnsupportedOperationException(); // uncomment this line to will fai
        }
}
```



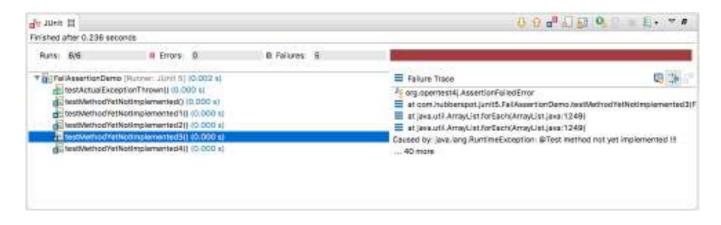




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You can perform code changes to above code widget, run and practice different outcomes.

Step 4 - Run FailedAssertionDemo.java class as Junit Test.



In the next lesson, we will look into assertTrue() and assertFalse() assertion.