assertThrows() method

This lesson demonstrates how to use assertThrows method in JUnit 5 to assert test conditions.

We'll cover the following assertThrows() method Demo

assertThrows() method

Assertions API provide static assertThrows() method. This method helps in asserting that execution of the supplied Executable throws an exception of the expectedType and returns the exception.

- If no exception is thrown, or if an exception of a different type is thrown, this method will fail.
- It follows the inheritance hierarchy, so the assert will pass if the expected type is Exception and actual is RuntimeException.

There are basically three useful overloaded methods for assertThrows:-

```
public static <T extends Throwable> T assertThrows(Class<T> expectedType, Executable exe
public static <T extends Throwable> T assertThrows(Class<T> expectedType, Executable exe
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```

Demo

Let's look into the usage of the above methods:-

Java Unit Testing with JUnit 5

JUnit 5 Assertions - assert arows() method

Dinesh Varyani https://www.hubberspot.com

assertThrows method

```
package io.educative.junit5;
                                                                                     import static org.junit.jupiter.api.Assertions.assertThrows;
import java.io.IOException;
import org.junit.jupiter.api.Test;
public class AssertThrowsDemo {
        @Test
        public void testAssertThrows() {
                assertThrows(ArithmeticException.class, () -> divide(1, 0));
        }
        @Test
        public void testAssertThrowsWithMessage() {
                assertThrows(IOException.class, () -> divide(1, 0), "Division by zero !!!");
        }
        @Test
        public void testAssertThrowsWithMessageSupplier() {
                assertThrows(IOException.class, () -> divide(1, 0), () -> "Division by zero!
        }
        private int divide(int a, int b) {
                return a / b;
        }
}
```

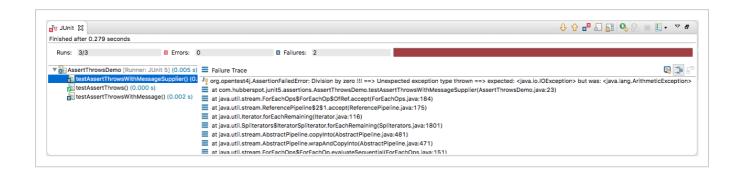






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Run AssertThrowsDemo class as JUnit Test.



In the next lesson, we will look into assertTimeout() and assertTimeoutPreemptively() assertions.