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

Demo

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



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Java Unit Testing with JUnit 5

JUnit 5 Assertions - assert arows() method

Dinesh Varyani https://www.hubberspot.com

assertThrows method

```
package io.educative.junit5;
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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;
}
```









Run AssertThrowsDemo class as JUnit Test.



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