

assertTimeoutPreemptively method

This lesson demonstrates how to use `assertTimeoutPreemptively` method in JUnit 5 to assert timeout conditions.

We'll cover the following



- `assertTimeoutPreemptively()` method
- Demo

`assertTimeoutPreemptively()` method

Assertions API provide static `assertTimeoutPreemptively()` method. It is used to test long-running tasks. If given task inside the test case takes more than the specified duration, then the test will fail.

The executable provided to the test case will be executed in the `different` thread as that of the calling code. Also, the execution of the executable will be preemptively aborted if the timeout is exceeded.

Demo

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



Java Unit Testing with JUnit 5

JUnit 5 Assertions – assertTimeoutPreemptively() method

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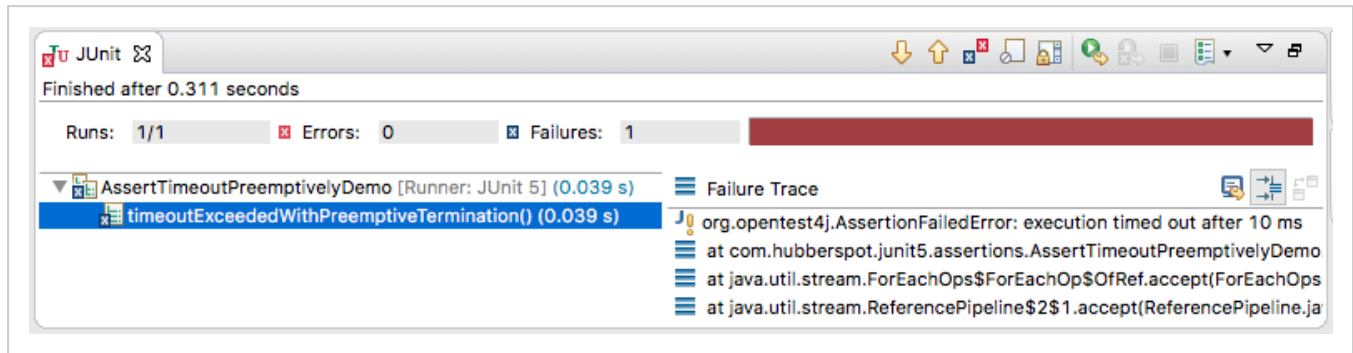
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assertTimeoutPreemptively method

```
1 package io.educative.junit5;
2
3 import static org.junit.jupiter.api.Assertions.assertTimeoutPreemptively;
4
5 import java.time.Duration;
6
7 import org.junit.jupiter.api.Test;
8
9 public class AssertTimeoutPreemptivelyDemo {
10     @Test
11     void timeoutExceededWithPreemptiveTermination() {
12         // The following assertion fails with an error message similar to:
13         // execution timed out after 10 ms
14         assertTimeoutPreemptively(Duration.ofMillis(10), () -> {
15             // Simulate task that takes more than 10 ms.
16             Thread.sleep(100);
17         });
18     }
19 }
```



Run AssertTimeoutPreemptivelyDemo class as JUnit Test.



In the next chapter, we will discuss about JUnit Test Lifecycle callbacks.