

What is the Assertion in JUnit 5?

This lesson describes Assertions in JUnit 5.

WE'LL COVER THE FOLLOWING



- Assertions in JUnit 5
- Assert methods in Assertions API

Assertions in JUnit 5

JUnit 5 assertions help us in validating the expected output with the actual output of a test case. In short, assertions are nothing but static methods that we call in our tests to verify expected behavior. All JUnit Jupiter assertions are present in the `org.junit.jupiter.Assertions` class.

These methods support Java 8 lambda expressions and are extensively overloaded to support different types such as primitives, objects, streams, arrays etc.



Java Unit Testing with JUnit 5

JUnit 5 Assertions



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Assert methods in Assertions API

Assert Method	What It Does
<code>assertNull()</code>	Asserts that actual is null.
<code>assertNotNull()</code>	Asserts that actual is not null.
<code>fail()</code>	Simply fails the test
<code>assertSame()</code>	Assert that expected and actual refer to the same object.
<code>assertNotSame()</code>	Assert that expected and actual do not refer to the same object.
<code>assertTrue()</code>	asserts that actual is true .
<code>assertFalse()</code>	asserts that actual is false .
<code>assertEquals()</code>	Assert that expected and actual are equal .
<code>assertNotEquals()</code>	Assert that expected and actual are not equal .
<code>assertArrayEquals()</code>	Assert that expected and actual arrays are equal .
<code>assertIterableEquals()</code>	Asserts that expected and actual iterables are deeply equal
<code>assertThrows()</code>	Assert if an executable throws the

<code>assertThrows()</code>	specified exception type.
<code>assertAll()</code>	Assert multiple assertions in groups .
<code>assertTimeout()</code>	Assert that the execution of a supplied Executable ends before a given timeout
<code>assertTimeoutPreemptively()</code>	Assert that the execution of the Executable will be preemptively aborted if the timeout is exceeded.

In our previous lessons we have used few assertions such as, `fail()`, `assertTrue()`, `assertFalse()` and `assertEquals()` etc. In our upcoming lesson, we will discuss each and every Assertion in more detail.