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## **Java Spring & AWS**

Sep 7, 2021 - Oct 8, 2021 Monday to Friday 9:30 AM ET - 4:30 PM ET



Agenda: Day - 18

✓ Unit testing





- It is an *open-source testing framework* for java programmers. The java programmer can create test cases and test his/her own code.
- It is one of the unit testing framework. Current version is junit 4.
- To perform unit testing, we need to create test cases. The **unit test case** is a code which ensures that the program logic works as expected.
- The **org.junit** package contains many interfaces and classes for junit testing such as Assert, Test, Before, After etc.

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## **Annotations for Junit testing**

The Junit 4.x framework is annotation based, so let's see the annotations that can be used while writing the test cases.

- >@Test annotation specifies that method is the test method.
- ➤ @Test(timeout=1000) annotation specifies that method will be failed if it takes longer than 1000 milliseconds (1 second).
- ➤ @BeforeClass annotation specifies that method will be invoked only once, before starting all the tests.
- >@Before annotation specifies that method will be invoked before each test.
- >@After annotation specifies that method will be invoked after each test.
- ➤ @AfterClass annotation specifies that method will be invoked only once, after finishing all the tests.

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The org.junit.Assert class provides methods to assert the program logic.

## **Methods of Assert class**

The common methods of Assert class are as follows:

- >void assertEquals(boolean expected,boolean actual): checks that two primitives/objects are equal. It is overloaded.
- >void assertTrue(boolean condition): checks that a condition is true.
- > void assertFalse(boolean condition): checks that a condition is false.
- > void assertNull(Object obj): checks that object is null.
- > void assertNotNull(Object obj): checks that object is not null.

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## Required jar files

• You need to load junit4.jar and hamcrest-core.jar files.

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