## assertFalse method

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

#### WE'LL COVER THE FOLLOWING ^

- assertFalse() method
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# assertFalse() method #

Assertions API provide static <code>assertFalse()</code> method. This method helps us in validating that the actual value supplied to it is <code>false</code>.

- If the actual value is false then test case will pass.
- If the actual value is true then test case will fail.

There are basically six useful overloaded methods for assertFalse -

```
public static void assertFalse(boolean condition)
public static void assertFalse(boolean condition, String message)

public static void assertFalse(boolean condition, Supplier<String> messageSupplier)

public static void assertFalse(BooleanSupplier booleanSupplier)

public static void assertFalse(BooleanSupplier booleanSupplier, String message)

public static void assertFalse(BooleanSupplier booleanSupplier, Supplier<String> messageSuppl
```



المشاهدة لاحقًا



# Java Unit Testing with JUnit 5

JUnit 5 Assertions - assertFalse() method

Dinesh Varyani https://www.hubberspot.com

assertFalse() method

### Demo #

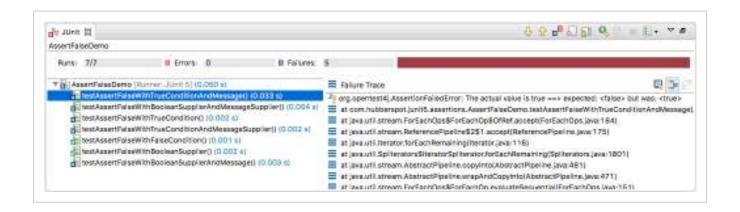
Let's look into the usage of the above methods.

```
package io.educative.junit5;
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import static org.junit.jupiter.api.Assertions.assertFalse;
import org.junit.jupiter.api.Test;
public class AssertFalseDemo {
        @Test
        public void testAssertFalseWithFalseCondition() {
                boolean falseValue = false;
                assertFalse(falseValue);
        }
        @Test
        public void testAssertFalseWithTrueCondition() {
                boolean trueValue = true;
                assertFalse(trueValue);
        }
        public void testAssertFalseWithTrueConditionAndMessage() {
                boolean trueValue = true;
                assentEalso(thuo)/aluo "The astual value is thuo").
```

```
}
       @Test
       public void testAssertFalseWithTrueConditionAndMessageSupplier() {
                boolean trueValue = true;
                assertFalse(trueValue, () -> "The actual value is true");
       }
       @Test
       public void testAssertFalseWithBooleanSupplier() {
                boolean falseValue = false;
                assertFalse(() -> falseValue);
       }
       @Test
       public void testAssertFalseWithBooleanSupplierAndMessage() {
                boolean trueValue = true;
                assertFalse(() -> trueValue, "The actual value is true");
       }
       @Test
       public void testAssertFalseWithBooleanSupplierAndMessageSupplier() {
                boolean trueValue = true;
                assertFalse(() -> trueValue, () -> "The actual value is true");
       }
}
```

You can perform code changes to above code widget, run and practice different outcomes.

Run AssertFalseDemo class as JUnit Test.



# Explanation - #

In AssertFalseDemo class, there are 7 @Test methods. These 7 methods demonstrate the working of the above 6 overloaded methods of assertFalse.

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- provided to assertFalse() method. Here, the actual value passed to it is

  false. Thus, it passes the Junit test case because assertFalse asserts that value passed to it should be false.
- 2. testAssertFalseWithTrueCondition() It asserts the boolean value provided to assertFalse() method. Here, actual value passed to it is true. Thus, it fails the Junit test case with AssertionFailedError: expected: <false> but was: <true> because value passed to assertFalse method is true.
- 3. testAssertFalseWithTrueConditionAndMessage It asserts the boolean value provided to assertFalse() method. Here, actual value passed to it is true. Thus, it fails the Junit test case with AssertionFailedError: The actual value is true ==> expected: <false> but was: <true> because value passed to assertFalse method is true. It gives AssertionFailedError followed String message we provide to assertFalse() method.
- 4. testAssertFalseWithTrueConditionAndMessageSupplier It asserts the boolean value provided to assertFalse() method. Here, actual value passed to it is true. Thus, it fails the Junit test case with

  AssertionFailedError: The actual value is true ==> expected: <false> but was: <true>\*\* because value passed to assertFalse method is true. It gives AssertionFailedError followed by lazily evaluated String message we provide to assertFalse() method, as lambda expression.
- 5. testAssertFalseWithBooleanSupplier() It asserts the boolean value provided to assertFalse() method through BooleanSupplier functional interface. Here, actual value passed to it is false. Thus, it passes the JUnit test case because assertFalse asserts that value passed to it should be false.
- 6. testAssertFalseWithBooleanSupplierAndMessage It asserts the boolean value provided to assertFalse() method through BooleanSupplier functional interface. Here, actual value passed to it is true. Thus, it fails the Junit test case with AssertionFailedError: The actual value is true ==> expected: <false> but was: <true> because value passed to assertFalse method is true. It gives AssertionFailedError followed String message we provide to assertFalse() method.

7. testAssertFalseWithBooleanSupplierAndMessageSupplier - It asserts the boolean value provided to assertFalse() method through BooleanSupplier functional interface. Here, actual value passed to it is true. Thus, it fails the Junit test case with AssertionFailedError: The actual value is true ==> expected: <false> but was: <true> because value passed to assertFalse method is true. It gives AssertionFailedError followed by lazily evaluated String message we provide to assertFalse() method, as lambda expression.

In the next lesson, we will look into <code>assertSame()</code> and <code>assertNotSame()</code> assertions.