assertSame() method

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

WE'LL COVER THE FOLLOWING ^

- assertSame() method
- Demo
- Explanation -

assertSame() method

Assertions API provide static assertSame() method. This method helps us in validating that expected and actual refer to the exact same object. JUnit uses
operator to perform this assert.

- If the actual and expected value refers to the same object then the test case will pass.
- If the actual and expected value does not refer to the same object then the test case will fail.

There are basically three useful overloaded methods for assertSame:-

```
public static void assertSame(Object expected, Object actual)
public static void assertSame(Object expected, Object actual, String message)
public static void assertSame(Object expected, Object actual, Supplier<String> messageSupplie
```

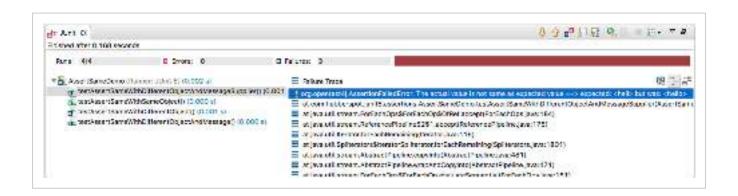
Demo

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

```
package io.educative.junit5;
import static org.junit.jupiter.api.Assertions.assertSame;
```

```
import org.junit.jupiter.api.Test;
public class AssertSameDemo {
        @Test
        public void testAssertSameWithSameObject() {
                String actual = "hello";
                String expected = "hello";
                assertSame(expected, actual);
        }
        @Test
        public void testAssertSameWithDifferentObject() {
                String actual = "hello";
                String expected = "hell";
                assertSame(expected, actual);
        }
        @Test
        public void testAssertSameWithDifferentObjectAndMessage() {
                String actual = "hello";
                String expected = "hell";
                assertSame(expected, actual, "The actual value is not same as expected value'
        }
        @Test
        public void testAssertSameWithDifferentObjectAndMessageSupplier() {
                String actual = "hello";
                String expected = "hell";
                assertSame(expected, actual, () -> "The actual value is not same as expected
        }
}
                                                                            A
```

Run AssertSameDemo class as JUnit Test.



Explanation -

In the AssertSameDemo class, there are 4 @Test methods. These 4 methods demonstrate the working of the above 3 overloaded methods of assertSame:

1. testAssertSameWithSameObject() - It asserts that actual value refers to

same expected object. Here, the expected value and actual value passed

to assertSame() is hello. Thus, it passes the Junit test case because assertSame finds actual and expected objects as same.

- 2. testAssertSameWithDifferentObject() It asserts that actual value refers to same expected object. Here, the expected value and actual value passed to assertSame() are hell and hello. Thus, it fails the Junit test case with AssertionFailedError: expected: <hell> but was: <hello> because hell and hello are not same String objects.
- 3. testAssertSameWithDifferentObjectAndMessage It asserts that actual value refers to same expected object. Here, the expected value and actual value passed to assertSame() are hell and hello. Thus, it fails the Junit test case with AssertionFailedError: The actual value is not same as expected value ==> expected: <hell> but was: <hello> because hell and hello are not same String objects. It gives AssertionFailedError followed by String message we provide to assertSame() method.
- 4. testAssertTrueWithFalseConditionAndMessageSupplier It asserts that actual value refers to same expected object. Here, the expected value and actual value passed to assertSame() are hell and hello. Thus, it fails the Junit test case with AssertionFailedError: The actual value is not same as expected value ==> expected: <hell> but was: <hello> because hell and hello are not same String objects. It gives AssertionFailedError followed by lazily evaluated String message we provide to assertSame() method, as lambda expression.

In the next lesson, we will look into assertNotSame() assertion.