3.7 Assisted Practice:

2. Write a program to demonstrate assertions.

Source Code:

Assertions.java

```
package com.ecommerce.asst;
import static org.junit.jupiter.api.Assertions.assertArrayEquals;
import static org.junit.jupiter.api.Assertions.assertEquals;
import static org.junit.jupiter.api.Assertions.assertFalse;
import static org.junit.jupiter.api.Assertions.assertNotEquals;
import static org.junit.jupiter.api.Assertions.assertNotNull;
import static org.junit.jupiter.api.Assertions.assertNotSame;
import static org.junit.jupiter.api.Assertions.assertNull;
import static org.junit.jupiter.api.Assertions.assertSame;
import static org.junit.jupiter.api.Assertions.assertThrows;
import static org.junit.jupiter.api.Assertions.assertTrue;
import org.junit.jupiter.api.*;
import org.junit.jupiter.api.condition.DisabledIf;
import org.junit.jupiter.api.condition.EnabledOnOs;
import org.junit.jupiter.api.condition.OS;
import org.junit.platform.runner.JUnitPlatform;
import org.junit.runner.RunWith;
@DisplayName("JUnit 5 Assertions Example")
@RunWith(JUnitPlatform.class)
public class Assertions {
        @Test
        @DisplayName("assert Examples")
        public void assertTests() {
                String str = null;
                String str2 = "some value";
                String[] a1 = { "A", "B" };
                String[] a2 = { "A", "B" };
                assertTrue(4 > 0);
                assertFalse(5 < 1);
                assertNull(str);
                assertNotNull(str2);
                assertSame(str, str);
                assertNotSame(str, str2);
                assertEquals(5, 5);
                assertNotEquals(5, 6);
                assertArrayEquals(a1, a2);
                assertThrows(RuntimeException.class, () -> {
                        throw new RuntimeException();
                });
}
```

pom.xml

```
ct xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>JunitAssertion
 <artifactId>JunitAssertion</artifactId>
 <version>0.0.1-SNAPSHOT
 <dependencies>
       <dependency>
           <groupId>org.junit.jupiter
           <artifactId>junit-jupiter-engine</artifactId>
           <version>5.4.2
       </dependency>
        <dependency>
       <groupId>org.junit.platform</groupId>
       <artifactId>junit-platform-launcher</artifactId>
       <version>1.2.0
   </dependency>
 </dependencies>
</project>
```

Output #1:

Element	Covera	Covered Ins	Missed Instr	Total Instruc
✓	100.0 %	61	0	61
src/test/java	100.0 %	61	0	61
→ ⊕ com.ecommerce.asst	100.0 %	61	0	61
Assertions.java	100.0 %	61	0	61
> • Assertions	100.0 %	61	0	61

Output #2:

