3.5 Assisted Practice:

1. Write a program to demonstrate standard tests.

Source Code:

 # StandardTestClass.java

```java
package com.ecommerce.stdtest;

import static org.junit.jupiter.api.Assertions.fail;
import static org.junit.jupiter.api.Assumptions.assumeTrue;

import org.junit.jupiter.api.AfterAll;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Disabled;
import org.junit.jupiter.api.DisplayName;
import org.junit.jupiter.api.Test;
import org.junit.platform.runner.JUnitPlatform;
import org.junit.runner.RunWith;

@DisplayName("JUnit 5 Standard Test Class Example")
@RunWith(JUnitPlatform.class)
public class StandardTestClass {

    @BeforeAll
    static void initAll() {
        System.out.println("initAll()");
    }

    @BeforeEach
    void init() {
        System.out.println("init()");
    }

    @Test
    void succeedingTest() {
        System.out.println("succeedingTest()");
    }

    @AfterEach
    void tearDown() {
        System.out.println("tearDown()");
    }

    @AfterAll
    static void tearDownAll() {
        System.out.println("tearDownAll()");
    }

}
```

 # pom.xml

```xml
<project 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>
```

```xml
<groupId>JunitStdTest</groupId>
<artifactId>JunitStdTest</artifactId>
<version>0.0.1-SNAPSHOT</version>

<dependencies>
     <dependency>
          <groupId>org.junit.jupiter</groupId>
          <artifactId>junit-jupiter-engine</artifactId>
          <version>5.4.2</version>
     </dependency>

      <dependency>
     <groupId>org.junit.platform</groupId>
     <artifactId>junit-platform-launcher</artifactId>
     <version>1.2.0</version>
   </dependency>

</dependencies>


</project>
```

Output #1:

JunitStdTest (15-Jun-2023 5:58:46 pm)				
Element	Covera...	Covered Ins...	Missed Instr...	Total Instruc...
⌄ 🗁 JunitStdTest	▌100.0 %	23	0	23
⌄ 🗁 src/test/java	▌100.0 %	23	0	23
⌄ ⊞ com.ecommerce.stdtest	▌100.0 %	23	0	23
⌄ 🗎 StandardTestClass.java	▌100.0 %	23	0	23
› ⊙ StandardTestClass	▌100.0 %	23	0	23

Output #2:

Markers · Propert... · Snippets · Terminal · Console · Progress · Servers · Covera... · Outline · Palette · JUnit × · Maven ... · Debug

Finished after 0.154 seconds

Runs: 3/3   Errors: 0   Failures: 0

≡ Failure Trace