

Phase – 3 Practice Project: Assisted Practice

11. Write a program to demonstrate standard tests.

- Code

- ✓ pom.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>
  <groupId>UsingJUnit</groupId>
  <artifactId>UsingJUnit</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>
```

- ✓ StandardTestClass.java

```
package com.ecommerce.tests;

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()");
}

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

    fail("a failing test");
}

@Test
@Disabled("for demonstration purposes")
void skippedTest() {
    // not executed
}

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

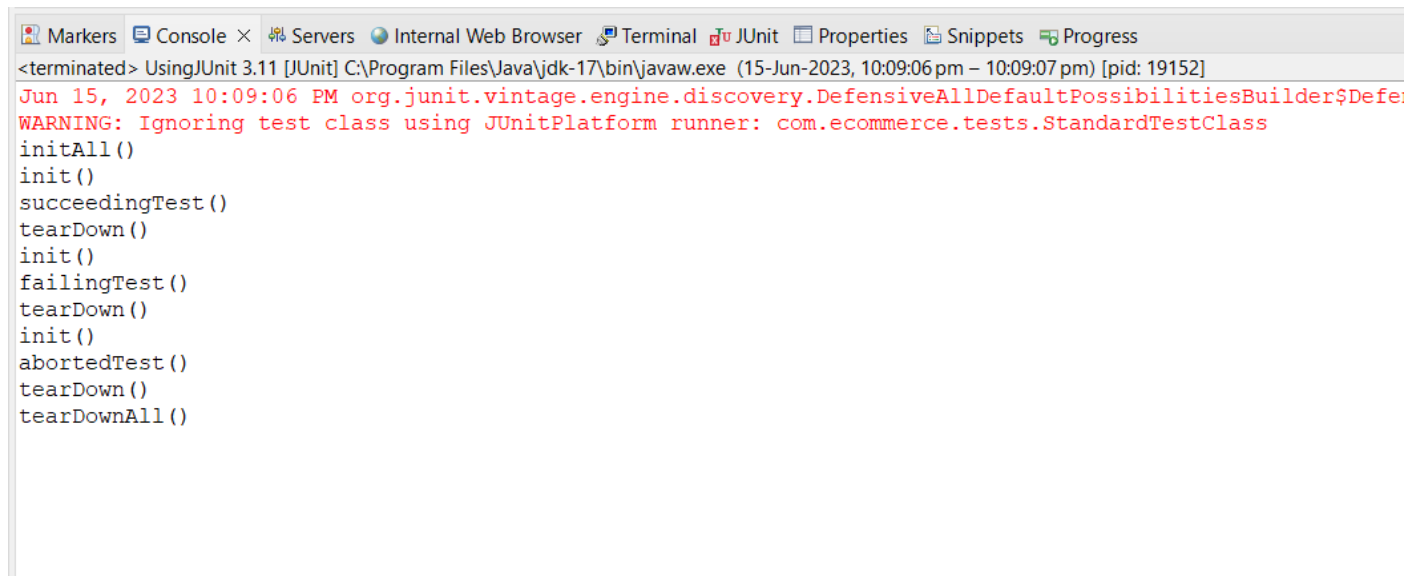
    assertTrue("abc".contains("Z"));
    fail("test should have been aborted");
}

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

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

```

✓ Output



The screenshot shows an IDE's console window with a tabbed interface. The active tab is 'Console'. The output text is as follows:

```
<terminated> UsingJUnit 3.11 [JUnit] C:\Program Files\Java\jdk-17\bin\javaw.exe (15-Jun-2023, 10:09:06 pm – 10:09:07 pm) [pid: 19152]
Jun 15, 2023 10:09:06 PM org.junit.vintage.engine.discovery.DefensiveAllDefaultPossibilitiesBuilder$Defe:
WARNING: Ignoring test class using JUnitPlatform runner: com.ecommerce.tests.StandardTestClass
initAll()
init()
succeedingTest()
tearDown()
init()
failingTest()
tearDown()
init()
abortedTest()
tearDown()
tearDownAll()
```