3.13 Assisted Practice:

5. Write a program to demonstrate dynamic tests.

<groupId>JUnitDynamic</groupId>

<artifactId>JUnitDynamic</artifactId>

Source Code:

DynamicTests.java

```
package com.ecommerce.tests;
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.jupiter.api.function.Executable;
import org.junit.jupiter.api.DynamicTest;
import org.junit.jupiter.api.TestFactory;
import org.junit.platform.runner.JUnitPlatform;
import org.junit.runner.RunWith;
import java.util.Arrays;
import java.util.Collection;
import static org.junit.jupiter.api.Assertions.assertTrue;
@DisplayName("JUnit 5 Dynamic Tests Example")
@RunWith (JUnitPlatform.class)
public class DynamicTests {
    @TestFactorv
    Collection<DynamicTest> dynamicTests() {
        return Arrays.asList(
                DynamicTest.dynamicTest("simple dynamic test", () ->
assertTrue(true)),
                DynamicTest.dynamicTest("My Executable Class", new
MyExecutable()),
                DynamicTest.dynamicTest("Exception Executable", () -> {
throw new Exception("Exception Example"); }),
                DynamicTest.dynamicTest("simple dynamic test-2", () ->
assertTrue(true))
        );
    static class MyExecutable implements Executable {
        @Override
        public void execute() throws Throwable {
            System.out.println("Hello World!");
    }
# 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>
```

<version>0.0.1-SNAPSHOT

Output #1:

```
Markers □ Propert... ▷ Snippets ❷ Terminal □ Console × □ Progress ♣ Servers □ Covera... ② Outline ② Palette ☑ JUnit □ Maven ... ♣ Debug □ □ <a href="terminated">terminated</a> > JUnitDynamic [JUnit] C:\Users\sweety janet\Downloads\sts-4.18.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20 Jun 16, 2023 12:11:07 AM org.junit.vintage.engine.discovery.DefensiveAllDefaultPossibilitiesBuilder$Defe ■ WARNING: Ignoring test class using JUnitPlatform runner: com.ecommerce.tests.DynamicTests Hello World!
```

Output #2:

Markers □ Propert □ Snippets	₽ Terminal	■ Console ■	Progress 👭 Se	ervers 🖻 Covera.
JUnitDynamic (16-Jun-2023 12:15:54	am)			
Element	Covera	Covered Ins	Missed Instr	Total Instruc
✓	100.0 %	51	0	51
	100.0 %	51	0	51
# com.ecommerce.tests	100.0 %	51	0	51
 DynamicTests.java 	100.0 %	51	0	51
OpnomicTests	100.0 %	44	0	44
MyExecutable V MyExecutable MyExecut	100.0 %	7	0	7
execute()	100.0 %	4	0	4
▲ dynamicTests()	100.0 %	30	0	30