Phase – 3 Practice Project: Assisted Practice

15. Write a program to demonstrate dynamic 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
 <artifactId>UsingJUnit</artifactId>
 <version>0.0.1-SNAPSHOT
 <dependencies>
       <dependency>
           <groupId>org.junit.jupiter</groupId>
           <artifactId>junit-jupiter-engine</artifactId>
           <version>5.4.2
       </dependency>
        <dependency>
       <groupId>org.junit.platform
       <artifactId>junit-platform-launcher</artifactId>
       <version>1.2.0
   </dependency>
 </dependencies>
</project>
```

✓ DynamicTests.java

```
package com.ecommerce.tests;
import static org.junit.Assert.assertTrue;
import static org.junit.jupiter.api.DynamicTest.dynamicTest;
import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import org.junit.jupiter.api.*;
import org.junit.jupiter.api.AfterAll;
import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.Test;
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.platform.runner.JUnitPlatform;
import org.junit.runner.RunWith;
import org.junit.jupiter.api.DynamicTest.*;
```

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

Output