Phase-3 Practice Project: Assisted Practice

3. Write a program to demonstrate conditional test executions.

```
pom.xml:
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-api</artifactId>
<version>5.7.2</version>
<scope>test</scope>
</dependency>
<dependency>
<groupId>org.junit.jupiter</groupId>
<artifactId>junit-jupiter-engine</artifactId>
<version>5.7.2</version>
</dependency>
<dependency>
<groupId>org.junit.platform</groupId>
<artifactId>junit-platform-launcher</artifactId>
<version>1.2.0</version>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.8.1</version>
<configuration>
<source>8</source>
<target>8</target>
</configuration>
</plugin>
```

```
</plugins>
</build>
</project>
ConditionalTests.java:
package com.ecommerce.tests;
import org.junit.jupiter.api.Assumptions; import org.junit.jupiter.api.DisplayName; import
org.junit.jupiter.api.Test;
import org.junit.jupiter.api.condition.EnabledOnOs; import org.junit.jupiter.api.condition.OS;
@DisplayName("JUnit 5 Conditional Tests Example")
public class ConditionalTests {
@Test
@EnabledOnOs({OS.WINDOWS}) public void runOnWindows() {
System.out.println("This runs on Windows");
}
@Test
@EnabledOnOs({OS.LINUX}) public void runOnLinux() {
System.out.println("This runs on Linux");
}
@Test
void mightNotBeExecuted() {
```

```
Assumptions.assumeTrue(5 > 1, "This may or may not execute");
}
```

Output:

```
Project Explorer du JUnit × □ □ W UsingJUnit/pom.xml ② ConditionalTests.java ×
                1 package com.ecommerce.tests;
Finished after 0.207 seconds
                                                         import org.junit.jupiter.api.Assumptions;
import org.junit.jupiter.api.DisplayName;
import org.junit.jupiter.api.Test;
import org.junit.jupiter.api.condition.EnabledOnOs;
import org.junit.jupiter.api.condition.OS;
 Runs: 3/3 (1 skipped) ☐ Errors: 0 ☐ Failures: 0

▼ Bi JUnit 5 Conditional Tests Example [Runner: JUnit 5]

      runOnWindows() (0.029 s)
      mightNotBeExecuted() (0.002 s)
                                                         10 @DisplayName("JUnit 5 Conditional Tests Example")

    □ runOnLinux() (0.000 s)

                                                         12 public class ConditionalTests {
                                                                         @Test
@EnabledOnOs({OS.WINDOWS})
                                                        14⊖
15
                                                         16
17
                                                                        public void runOnWindows() {
    System.out.println("This runs on Windows");
```

