**WEEK-2**

**MODULE-4**

**MOCKITO EXERCISES**

**SUPERSET ID:6407550**

**Exercise:2-** **Verifying Interactions**

**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>com.example</groupId>

<artifactId>JUnitDemo</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- JUnit 4 -->

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

<!-- Mockito -->

<dependency>

<groupId>org.mockito</groupId>

<artifactId>mockito-core</artifactId>

<version>4.11.0</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.8.1</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

</plugins>

</build>

</project>

**src/main/java/com.example**

**ExternalApi.java**

package com.example;

public interface ExternalApi {

String getData();

}

**MyService.java**

package com.example;

public class MyService {

private ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData(); // normally calls real API

}

}

**src/test/java/com.example**

**MyServiseTest.java**

package com.example;

import static org.mockito.Mockito.\*;

import org.junit.Test;

import org.mockito.Mockito;

public class MyServiceTest {

@Test

public void testVerifyInteraction() {

// Step 1: Mock the external API

ExternalApi mockApi = Mockito.mock(ExternalApi.class);

// Step 2: Inject into service and call method

MyService service = new MyService(mockApi);

service.fetchData();

// Step 3: Verify the interaction

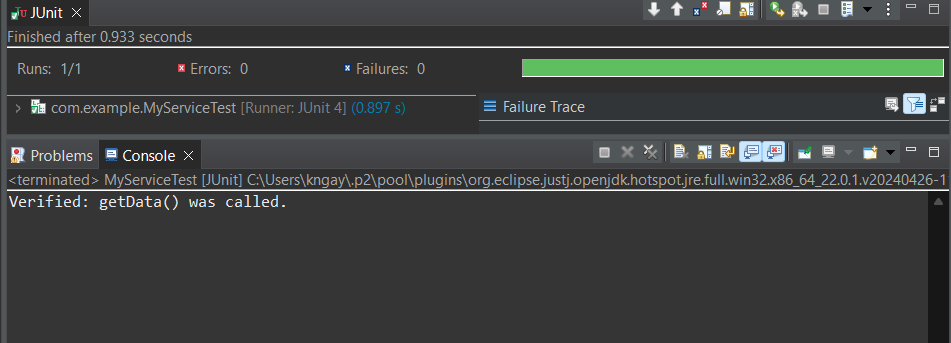
verify(mockApi).getData(); // Confirms getData() was called

System.out.println("Verified: getData() was called.");

}

}

**OUTPUT:**

****