**Exercise 2: Verifying Interactions**

**Scenario:**

We need to ensure that a method is called with specific arguments.

**1. ExternalApi.java (interface to mock)**

package com.example;

public interface ExternalApi {

String getData();

}

**2. Service.java (class under test)**

package com.example;

public class Service {

private ExternalApi api;

public Service(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

**3. ServiceTest.java (test with verification)**

package com.example;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

import org.mockito.Mockito;

public class ServiceTest {

@Test

public void testVerifyInteraction() {

// Step 1: Create mock

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

// Step 2: Inject mock into service

Service service = new Service(mockApi);

// Step 3: Call method

service.fetchData();

// Step 4: Verify interaction

verify(mockApi).getData();

}

}

**Output ScreenShot:**

