**Exercise 2: Verifying Interactions**

**ExternalApi.java**

package org.example;

public interface ExternalApi {

String getData();

}

**MyService.java**

package org.example;

public class MyService {

private final ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

**MyServiceTest.java**

package org.example;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

public class MyServiceTest {

@Test

public void testVerifyInteraction() {

// Step 1: Create a mock of the ExternalApi

ExternalApi mockApi = mock(ExternalApi.class);

// Step 2: Create the service and inject the mock

MyService service = new MyService(mockApi);

// Step 3: Call the method that should trigger interaction

service.fetchData();

// Step 4: Verify the interaction with specific method

verify(mockApi).getData(); // ✅ Will pass if called once

}

}

**Output :**

