**Exercise 2: Verifying Interactions**

Code:

ExternalApi.java:

package com.example;

public interface ExternalApi {

    String getData();

}

MyService.java

package com.example;

public class MyService {

    private final ExternalApi externalApi;

    public MyService(ExternalApi externalApi) {

        this.externalApi = externalApi;

    }

    public String fetchData() {

        return externalApi.getData();

    }

}

MyServiceTest2.java:

package com.example;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

public class MyServiceTest2 {

    @Test

    public void testVerifyInteraction() {

        // Step 1: Create a mock object

        ExternalApi mockApi = mock(ExternalApi.class);

        // Step 2: Use the mock

        MyService service = new MyService(mockApi);

        service.fetchData();

        // Step 3: Verify interaction

        verify(mockApi).getData();  // Passes if getData() was called

    }

}

Output:

