Mockito Exercises

Exercise 1: Mocking and Stubbing & Exercise 2: Verifying Interactions

Code:

**ExternalApi.java:**

package com.example;

public interface ExternalApi {

String getData();

}

**MyService.java**:

public class MyService {

private final ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

**MyServiceTest.java:**

package com.example;

import org.junit.jupiter.api.Test;

import static org.junit.jupiter.api.Assertions.assertEquals;

import static org.mockito.Mockito.\*;

public class MyServiceTest {

@Test

public void testExternalApi() {

// Exercise 1: Mocking and Stubbing

ExternalApi mockApi = mock(ExternalApi.class);

when(mockApi.getData()).thenReturn("Mock Data");

MyService service = new MyService(mockApi);

String result = service.fetchData();

assertEquals("Mock Data", result);

}

@Test

public void testVerifyInteraction() {

**// Exercise 2: Verifying Interactions**

ExternalApi mockApi = mock(ExternalApi.class);

MyService service = new MyService(mockApi);

service.fetchData();

verify(mockApi).getData(); // Verify that getData() was called

}

}

**Output :**

