**Exercise 2: Mocking External Services (RESTful APIs)**

**ExternalApi.java**

public interface ExternalApi {

String getResponse();

}

**MyService.java**

public class MyService {

private final ExternalApi restClient;

public MyService(ExternalApi restClient) {

this.restClient = restClient;

}

public String fetchData() {

String response = restClient.getResponse();

return "Fetched " + response;

}

}

**MyServiceTest.java**

import static org.mockito.Mockito.\*;

import static org.junit.jupiter.api.Assertions.\*;

import org.junit.jupiter.api.Test;

public class MyServiceTest {

@Test

public void testServiceWithMockRestClient() {

ExternalApi mockRestClient = mock(ExternalApi.class);

when(mockRestClient.getResponse()).thenReturn("Mock Response");

MyService apiService = new MyService(mockRestClient);

String result = apiService.fetchData();

assertEquals("Fetched Mock Response", result);

System.out.println("Result: " + result);

}

}

