Exercise 2: Mocking External REST APIs

**RestClient.java:**

package com.example.mockito;

public interface RestClient {

String getResponse();

}

**ApiService.java:**

package com.example.mockito;

public class ApiService {

private final RestClient restClient;

public ApiService(RestClient restClient) {

this.restClient = restClient;

}

public String fetchData() {

return "Fetched " + restClient.getResponse();

}

}

**ApiServiceTest.java:**

package com.example.mockito;

import org.junit.jupiter.api.Test;

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

import static org.mockito.Mockito.\*;

public class ApiServiceTest {

@Test

public void testServiceWithMockRestClient() {

RestClient mockRestClient = *mock*(RestClient.class);

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

ApiService apiService = new ApiService(mockRestClient);

String result = apiService.fetchData();

*assertEquals*("Fetched Mock Response", result);

}

}

**Output:**

