**SUPERSET ID: 6408269**

**TOPIC : TDD USING Junit5 AND MOCKITO**

**EXERCISE 2 : VERIFYING INTERACTIONS**

ExternalApi.java :

package com.example.service;

public interface ExternalApi {

String getData();

}

MyService.java :

package com.example.service;

public class MyService {

private final ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

MyServiceTest1.java:

package com.example.service;

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

public class MyServiceTest1 {

*@Test*

public void testVerifyInteraction() {

// 1. Create mock ExternalApi

ExternalApi mockApi = *mock*(ExternalApi.class);

// 2. Create MyService with mock

MyService service = new MyService(mockApi);

// 3. Call the method that uses ExternalApi

service.fetchData();

// 4. Verify that getData() was called exactly once

*verify*(mockApi, *times*(1)).getData();

}

}

**OUTPUT SCREENSHOT :**

