**Exercise 1: Mocking and Stubbing**

**pom.xml:**

<dependency>

<groupId>org.mockito</groupId>

<artifactId>mockito-core</artifactId>

<version>5.12.0</version>

<scope>test</scope>

</dependency>

**MyService.java:**

package com.cts.deepskilling;

public class MyService

{

private final ExternalApi api;

public MyService(ExternalApi api)

{

this.api = api;

}

public String fetchData()

{

return api.getData();

}

}

**MyServiceTest1.java:**

package com.cts.deepskilling;

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

import static org.mockito.Mockito.\*;

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

import org.mockito.Mockito;

public class MyServiceTest1

{

@Test

public void testExternalApi()

{

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

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

MyService service = new MyService(mockApi);

String result = service.fetchData();

*assertEquals*("Mock Data", result);

}

}

**ExternalApi.java:**

package com.cts.deepskilling;

public interface ExternalApi

{

String getData();

}

**A screenshot of a computer

AI-generated content may be incorrect.**

**Exercise 2: Verifying Interactions**

**MyServiceTest2.java:**

package com.cts.deepskilling;

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

import org.mockito.Mockito;

public class MyServiceTest2

{

@Test

public void testVerifyInteraction()

{

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

MyService service = new MyService(mockApi);

service.fetchData();

*verify*(mockApi).getData();

}

}

A screenshot of a computer

AI-generated content may be incorrect.