**Exercise 3: Argument Matching**

1. ExternalApi.java

package com.exercise3;

public interface ExternalApi {

String getDataById(int id);

}

1. MyService.java

package com.exercise3;

public class MyService {

private ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData(int id) {

return api.getDataById(id);

}

}

1. MyServiceTest.java

package com.exercise3;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

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

public class MyServiceTest {

*@Test*

public void testVerifyInteractionWithArguments() {

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

*when*(mockApi.getDataById(100)).thenReturn("Data 100");

MyService service = new MyService(mockApi);

String result = service.fetchData(100);

*assertEquals*("Data 100", result);

*verify*(mockApi).getDataById(*eq*(100));

}

}

Output:

A computer screen shot of a program

AI-generated content may be incorrect.