**Exercise\_1\_Mocking and Stubbing**

ExternalApi.java

public interface ExternalApi {

String getData();

}

MyService.java

public class MyService {

private ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

**MyServiceTest.java**

import static org.mockito.Mockito.\*;

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

import org.junit.jupiter.api.Test;

import org.mockito.Mockito;

public class MyServiceTest {

@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();

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

assertEquals("Mock Data", result);

}

}

OUTPUT:

A screen shot of a computer

AI-generated content may be incorrect.