Exercise 1: Mocking and Stubbing (Mockito)

**Externalapi.java:**

package com.example.mockito;

public interface Externalapi {

String getData();

}

**Myservice.java:**

package com.example.mockito;

public class Myservice {

private Externalapi api;

public Myservice(Externalapi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

**Myservicetest.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 Myservicetest {

@Test

public void testExternalApi() {

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

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

Myservice service = new Myservice(mockApi);

String result = service.fetchData();

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

}

}