**Mocking and Stubbing**

**CODE :**

ExternalApi.java :

package org.example;

public interface ExternalApi {

String getData();

}

MyService.java :

package org.example;

public class MyService {

private ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

MyServiceTest.java :

package org.example;

import org.junit.jupiter.api.Test;

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

import static org.mockito.Mockito.\*;

public class MyServiceTest {

@Test

public void testExternalApi() {

// Arrange

ExternalApi mockApi = mock(ExternalApi.class);

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

MyService service = new MyService(mockApi);

// Act

String result = service.fetchData();

// Assert

assertEquals("Mock Data", result);

}

}

**OUTPUT :**

