## ****Exercise 1: Mocking and Stubbing****

## Scenario:

## You need to test a service that depends on an ****external API****. Use ****Mockito**** to mock the external API and ****stub its methods****.

**CODE:**

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

import org.mockito.Mockito;

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

public class MyServiceTest {

@Test

public void testExternalApi() {

// Step 1: Create a mock object for the external API

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

// Step 2: Stub the method to return predefined value

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

// Step 3: Use mock in service and test

MyService service = new MyService(mockApi);

String result = service.fetchData();

// Assert the result is as expected

assertEquals("Mock Data", result);

}

}

**OUTPUT:**

Tests run: 1, Failures: 0

BUILD SUCCESS