**Exercise 1: Mocking and Stubbing**

**Source code :**

**ExternalApi.java**

package com;

public interface ExternalApi {

String getData();

}

**MyService.java**

package com;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int subtract(int a, int b) {

return a - b;

}

}

**MyServiceTest.java**

package com;

import static org.mockito.Mockito.\*;

import static org.junit.Assert.assertEquals;

import org.junit.Test;

public class MyServiceTest {

@Test

public void testExternalApi() {

// Create mock

ExternalApi mockApi = mock(ExternalApi.class);

// Stub method

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

// Use mock in service

MyService service = new MyService(mockApi);

String result = service.fetchData();

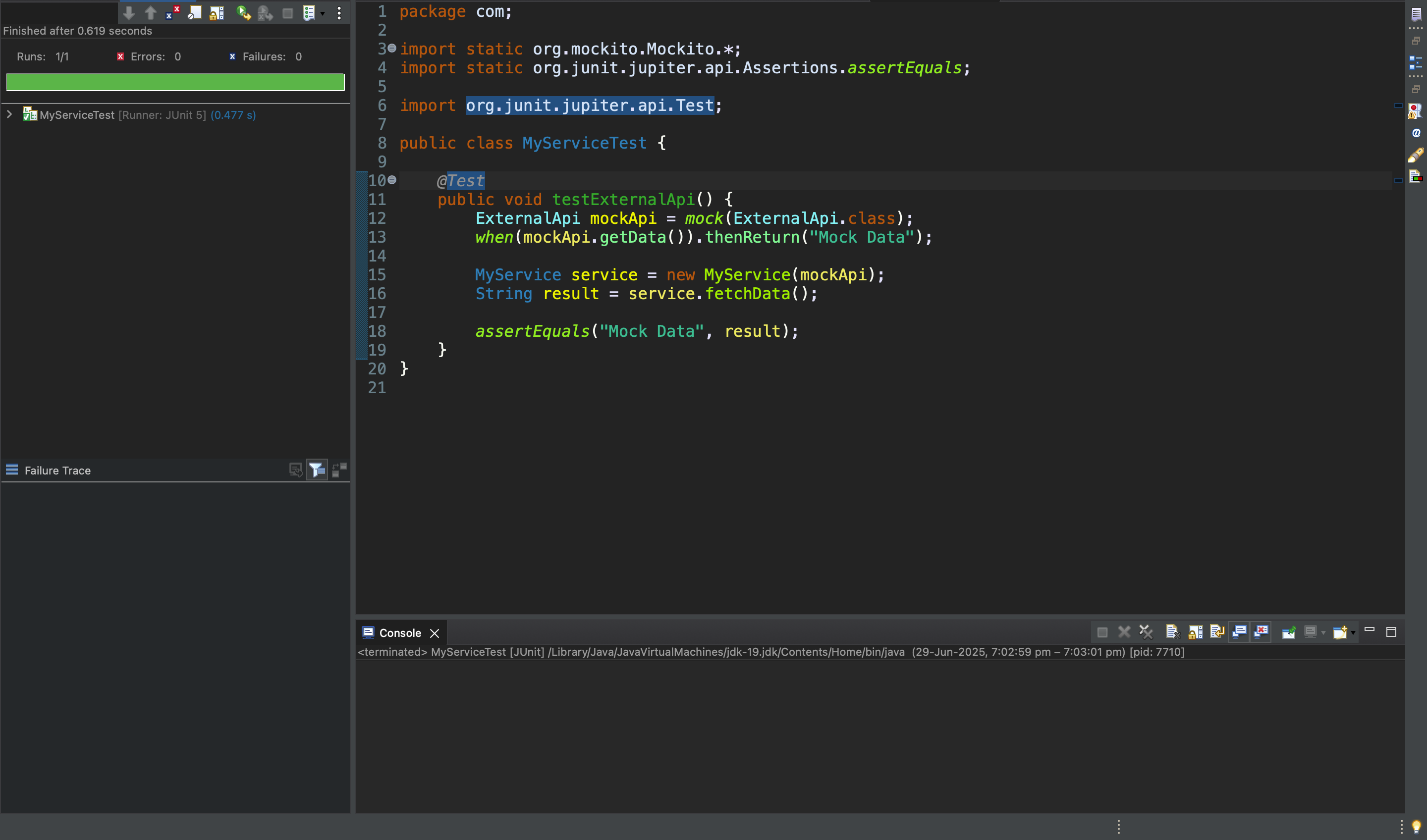
// Assert

assertEquals("Mock Data", result);

}

}

**Output :**

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