**SUPERSET ID: 6408269**

**TOPIC : TDD USING Junit5 AND MOCKITO**

**EXERCISE 1: MOCKING AND STUBBING**

**ExternalApi.java**:

package com.example.service;

public interface ExternalApi {

String getData();

}

**MyService.java**:

package com.example.service;

public class MyService {

private final ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

**MyServiceTest.java**:

package com.example.service;

import static org.junit.jupiter.api.Assertions.assertEquals;

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

public class MyServiceTest {

@Test

public void testExternalApi() {

// 1. Create a mock of ExternalApi

ExternalApi mockApi = mock(ExternalApi.class);

// 2. Stub the getData method

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

// 3. Inject mock into MyService

MyService service = new MyService(mockApi);

// 4. Call method and assert result

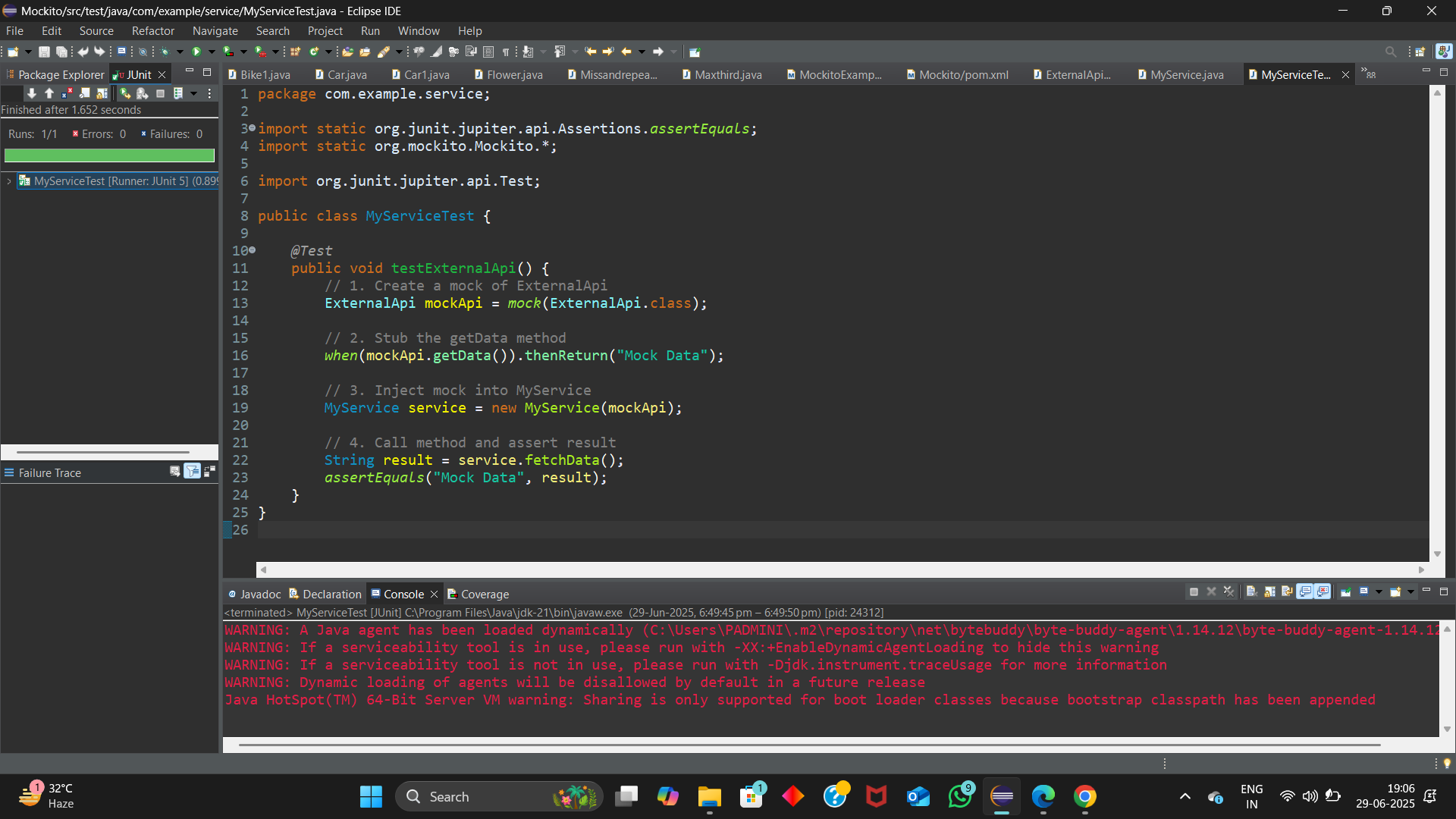
String result = service.fetchData();

assertEquals("Mock Data", result);

}

}

**OUTPUT SCREENSHOT :**

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