**Exercise 1: Mocking and Stubbing**

**Code:**

#ExternalApi.java

package com.example;

public interface ExternalApi {

String getData();

}

#MyService.java

package com.example;

public class MyService {

private final ExternalApi externalApi;

public MyService(ExternalApi externalApi) {

this.externalApi = externalApi;

}

public String fetchData() {

return externalApi.getData();

}

}

# MyServiceTest.java

package com.example;

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() {

// Arrange

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

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

MyService service = new MyService(mockApi);

// Act

String result = service.fetchData();

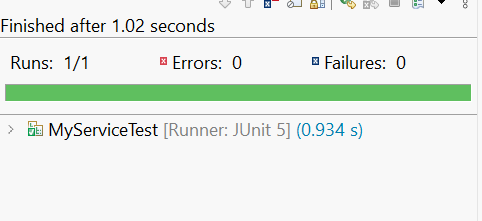
// Assert

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

}

}

**Output:**

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