**Mockito Hands-On Exercises**

**Exercise 1: Mocking and Stubbing**

**CODE:-**

***ExternalApi.java***

public interface ExternalApi {

String getData();

}

***MyService.java***

public class MyService {

private final ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

***MyServiceTest.java***

import org.junit.jupiter.api.Test;

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

import static org.mockito.Mockito.\*;

public class MyServiceTest {

@Test

public void testFetchDataReturnsMockValue() {

ExternalApi mockApi = mock(ExternalApi.class);

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

MyService service = new MyService(mockApi);

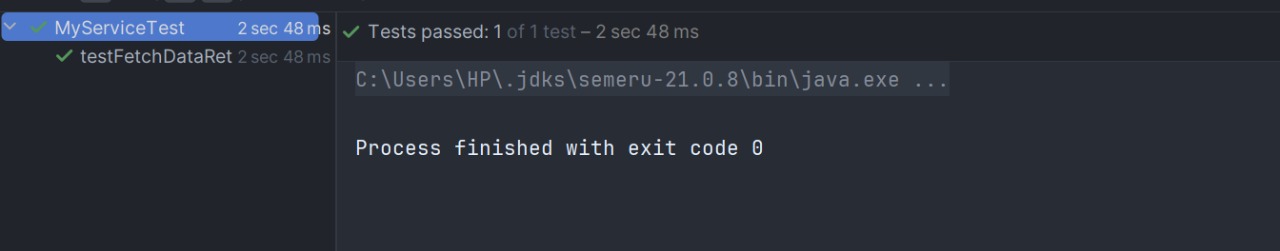
String result = service.fetchData();

assertEquals("Mock Data", result);

    }

}

**OUTPUT:-**



**Exercise 2: Verifying Interactions**

**CODE:-**

***ExternalApi.java***

public interface ExternalApi {

String getData();

}

***MyService.java***

public class MyService {

private final ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

}

***MyServiceTest.java***

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

public class MyServiceTest {

@Test

public void testVerifyInteraction() {

ExternalApi mockApi = mock(ExternalApi.class);

MyService service = new MyService(mockApi);

service.fetchData();

verify(mockApi).getData();

    }

}

**OUTPUT :-**

