**Exercise 4: Handling Void Methods**

**ExternalApi.java**

package mypackage;

public interface ExternalApi {

String getData();

void sendMessage(String message);

void logAction(String action);

}

**MyService.java**

package mypackage;

public class MyService {

private final ExternalApi api;

public MyService(ExternalApi api) {

this.api = api;

}

public String fetchData() {

return api.getData();

}

public void sendGreeting() {

api.sendMessage("Hello World");

}

public void performLogging() {

api.logAction("DATA\_FETCHED");

}

}

**MyserviceTest.java**

package mypackage;

import static org.mockito.Mockito.\*;

import static org.mockito.ArgumentMatchers.\*;

import org.junit.jupiter.api.Test;

public class MyServiceTest {

@Test

public void testVoidMethodInteraction() {

ExternalApi mockApi = mock(ExternalApi.class);

MyService service = new MyService(mockApi);

doNothing().when(mockApi).logAction(anyString());

service.performLogging();

verify(mockApi).logAction(eq("DATA\_FETCHED"));

System.out.println("LogAction(\"DATA\_FETCHED\") was called successfully.");

}

}



