**Exercise 5: Mocking and Stubbing with Multiple Returns**

**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 void fetchMultipleTimes() {

System.out.println("Call 1: " + api.getData());

System.out.println("Call 2: " + api.getData());

System.out.println("Call 3: " + api.getData());

}

}

**MyServiceTest.java**

package mypackage;

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

public class MyServiceTest {

@Test

public void testMultipleReturnValues() {

ExternalApi mockApi = mock(ExternalApi.class);

when(mockApi.getData())

.thenReturn("First Call")

.thenReturn("Second Call")

.thenReturn("Third Call");

MyService service = new MyService(mockApi);

service.fetchMultipleTimes();

System.out.println(" getData() returned different values on each call as expected.");

}

}



