**Exercise 6: Verifying Interaction Order**

1. ExternalApi.java

package com.exercise6;

public interface ExternalApi {

void initialize();

void fetchData();

void cleanUp();

}

1. WorkflowService.java

package com.exercise6;

public class WorkflowService {

private ExternalApi api;

public WorkflowService(ExternalApi api) {

this.api = api;

}

public void run() {

api.initialize();

api.fetchData();

api.cleanUp();

}

}

1. WorkflowServiceTest.java

package com.exercise6;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

import org.mockito.InOrder;

public class WorkflowServiceTest {

*@Test*

public void testInteractionOrder() {

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

WorkflowService service = new WorkflowService(mockApi);

service.run();

InOrder inOrder = *inOrder*(mockApi);

inOrder.verify(mockApi).initialize();

inOrder.verify(mockApi).fetchData();

inOrder.verify(mockApi).cleanUp();

}

}

Output:

