Mockito Hands-On Exercises

Exercise 2: Verifying Interactions

Scenario: You need to ensure that a method is called with specific arguments.   Steps:

1. Create a mock object.
2. Call the method with specific arguments.
3. Verify the interaction.

Solution Code:

```java
package mockito.mockito;

import static org.mockito.Mockito.*;

import org.junit.jupiter.api.Test;

public class MyServiceTest {
    @Test
    public void testVerifyInteraction() {
        // Step 1: Create mock
        ExternalApi mockApi = mock(ExternalApi.class);

        // Step 2: Use mock in service
        MyService service = new MyService(mockApi);

        // Step 3: Call method        service.fetchData();

        // Step 4: Verify interaction        verify(mockApi).getData();

}
```

Finished after 2.148 seconds

Runs: 1/1   Errors: 0   Failures: 0

> MyServiceTest [Runner: JUnit 5] (1.947 s)

Failure Trace

```java
1  package mockito.mockito;
2
3  import static org.mockito.Mockito.*;
4
5  import org.junit.jupiter.api.Test;
6
7  public class MyServiceTest {
8
9      @Test
10     public void testVerifyInteraction() {
11         // Step 1: Create mock
12         ExternalApi mockApi = mock(ExternalApi.class);
13
14         // Step 2: Use mock in service
15         MyService service = new MyService(mockApi);
16
17         // Step 3: Call method
18         service.fetchData();
19
20         // Step 4: Verify interaction
21         verify(mockApi).getData();
22
23     }
24     }
```