Mockito Hands-On Exercises

Exercise 1: Mocking and Stubbing

Scenario:

You need to test a service that depends on an external API. Use Mockito to mock the external API and stub its methods.

Steps:

1. Create a mock object for the external API.
2. Stub the methods to return predefined values.
3. Write a test case that uses the mock object.

Solution Code:

```java
package mockito.mockito;


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

import static org.mockito.Mockito.*;


import org.junit.jupiter.api.Test;


public class MyServiceTest {


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


            // Step 2: Stub the method
            when(mockApi.getData()).thenReturn("Mock Data");
```

```
// Step 3: Inject mock and test

MyService service = new MyService(mockApi);

String result = service.fetchData();


assertEquals("Mock Data", result);
    }

}
```