Mockito Assignment

# Exercise 1: Mocking and Stubbing

Filename: MockingAndStubbing.java  
import static org.mockito.Mockito.\*;  
import static org.junit.jupiter.api.Assertions.\*;  
  
import org.junit.jupiter.api.Test;  
import org.mockito.Mockito;  
  
  
public class MockingAndStubbing {  
  
 interface ExternalApi {  
 String getData();  
 }  
  
 static class MyService {  
 private ExternalApi api;  
  
 public MyService(ExternalApi api) {  
 this.api = api;  
 }  
  
 public String fetchData() {  
 return api.getData();  
 }  
 }  
  
 @Test  
 public void testMockingAndStubbing() {  
 ExternalApi mockApi = Mockito.mock(ExternalApi.class);  
 when(mockApi.getData()).thenReturn("Mock Data");  
  
 MyService service = new MyService(mockApi);  
 String result = service.fetchData();  
  
 assertEquals("Mock Data", result);  
 }  
}

# Exercise 2: Verifying Interactions

Filename: VerifyingInteraction.java

import static org.mockito.Mockito.\*;  
  
import org.junit.jupiter.api.Test;  
import org.mockito.Mockito;  
  
  
public class VerifyingInteraction {  
  
 interface ExternalApi {  
 String getData();  
 }  
  
 static class MyService {  
 private ExternalApi api;  
  
 public MyService(ExternalApi api) {  
 this.api = api;  
 }  
  
 public String fetchData() {  
 return api.getData();  
 }  
 }  
  
 @Test  
 public void testVerifyInteraction() {  
 ExternalApi mockApi = Mockito.mock(ExternalApi.class);  
  
 MyService service = new MyService(mockApi);  
 service.fetchData();  
  
 verify(mockApi).getData(); // Verifies getData() was called  
 }  
}