**Advanced Mockito Hands-On Exercises**

**Exercise 1: Mocking Databases and Repositories**

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

import static org.junit.jupiter.api.Assertions.\*;

public class ServiceTest {

@Test

public void testServiceWithMockRepository() {

Repository mockRepository = mock(Repository.class);

when(mockRepository.getData()).thenReturn("Mock Data");

Service service = new Service(mockRepository);

String result = service.processData();

assertEquals("Processed Mock Data", result);

}

}

**Exercise 2: Mocking External Services (RESTful APIs)**

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

import static org.junit.jupiter.api.Assertions.\*;

public class ApiServiceTest {

@Test

public void testServiceWithMockRestClient() {

RestClient mockRestClient = mock(RestClient.class);

when(mockRestClient.getResponse()).thenReturn("Mock Response");

ApiService apiService = new ApiService(mockRestClient);

String result = apiService.fetchData();

assertEquals("Fetched Mock Response", result);

}

}