Exercise 4: Mocking Network Interactions

**NetworkClient.java:**

package com.example.mockito;

public interface NetworkClient {

String connect();

}

**NetworkService.java:**

package com.example.mockito;

public class NetworkService {

private final NetworkClient networkClient;

public NetworkService(NetworkClient networkClient) {

this.networkClient = networkClient;

}

public String connectToServer() {

return "Connected to " + networkClient.connect();

}

}

**NetworkServiceTest.java:**

package com.example.mockito;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

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

public class NetworkServiceTest {

@Test

public void testServiceWithMockNetworkClient() {

NetworkClient mockClient = *mock*(NetworkClient.class);

*when*(mockClient.connect()).thenReturn("Mock Connection");

NetworkService service = new NetworkService(mockClient);

String result = service.connectToServer();

*assertEquals*("Connected to Mock Connection", result);

}

}

**Output:**

