Exercise 1: Mocking Databases and Repositories

**Repository.java:**

package com.example.mockito;

public interface Repository {

String getData();

}

**Service.java:**

package com.example.mockito;

public class Service {

private final Repository repository;

public Service(Repository repository) {

this.repository = repository;

}

public String processData() {

return "Processed " + repository.getData();

}

}

**ServiceTest.java:**

package com.example.mockito;

import org.junit.jupiter.api.Test;

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

import static org.mockito.Mockito.\*;

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); } }

**output:**

