

ACTIVITY PRAKTIKUM

Mata Praktikum : Rekayasa Perangkat Lunak 2
Kelas : 4IA06
Praktikum ke- : 6
Tanggal : 19 November 2024
Materi : Implementasi Aspect Oriented Programming (AOP) dan Dependency Injection pada Project Spring dan Hibernate
NPM : 51421517
Nama : William Devin Septianus Pranggono
Ketua Asisten :
Paraf Asisten :
Nama Asisten : Gilbert Jefferson Faozato Mendrofa
Jumlah Lembar : 12 lembar

LABORATORIUM TEKNIK INFORMATIKA

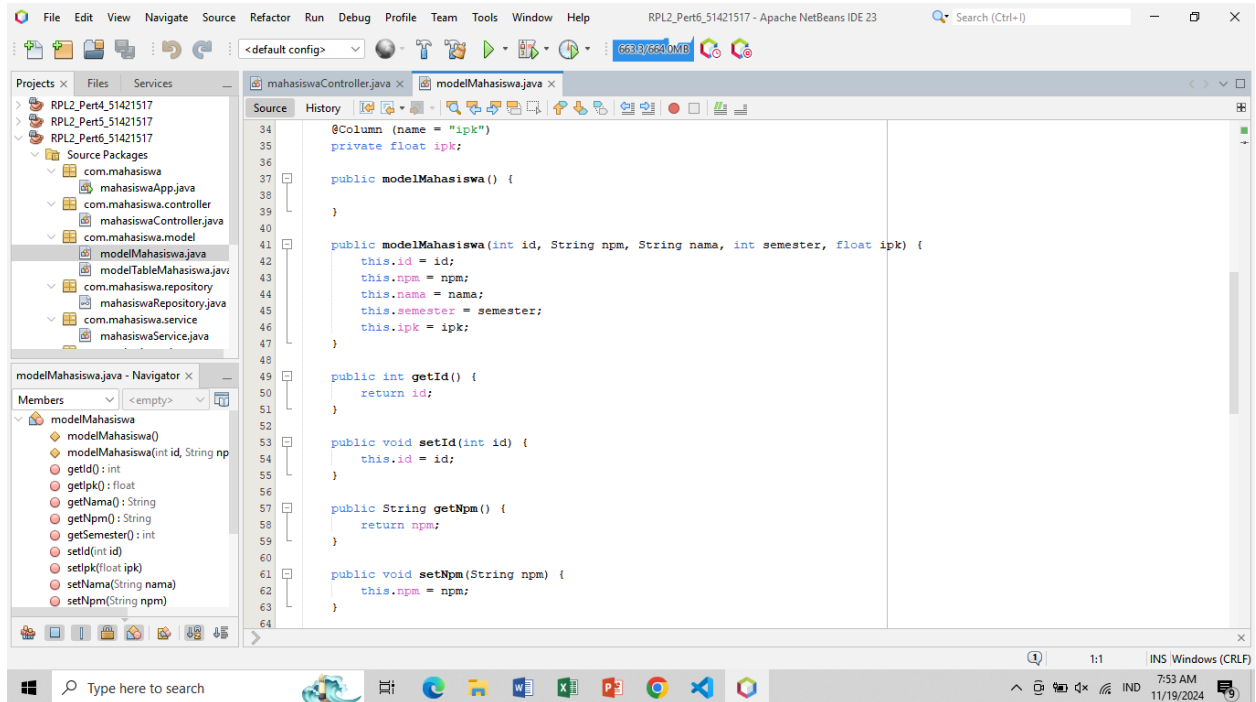
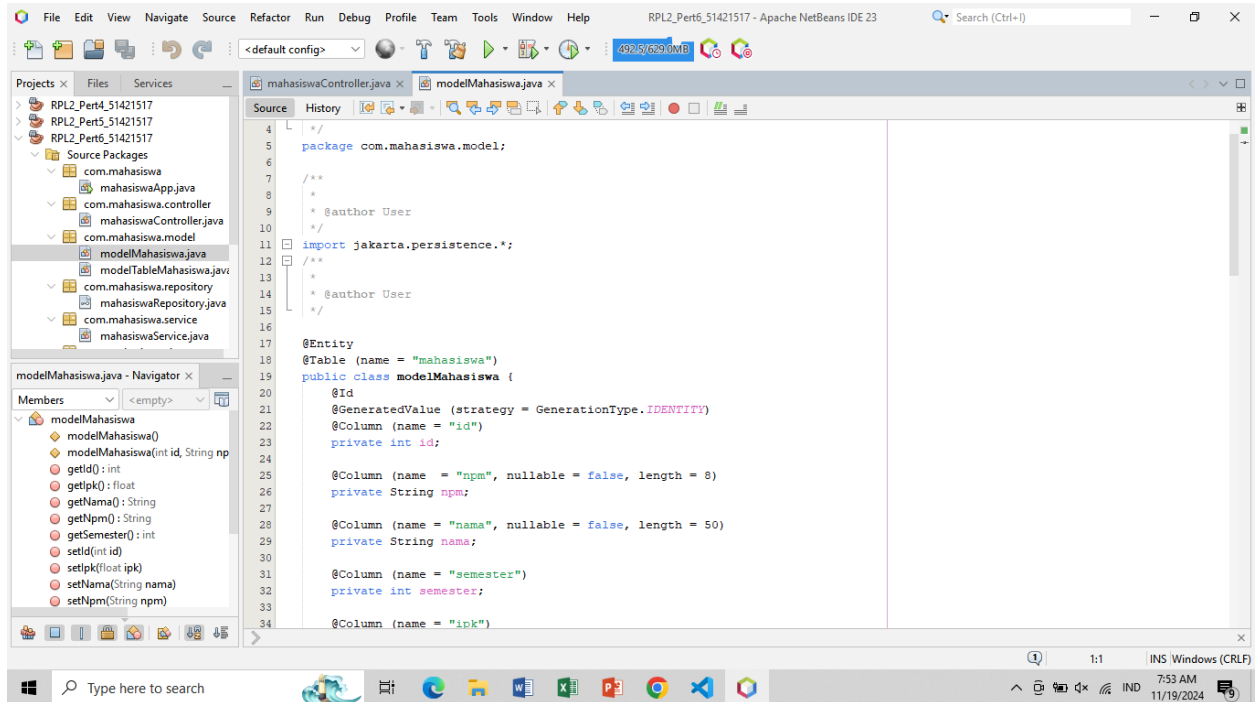
UNIVERSITAS GUNADARMA

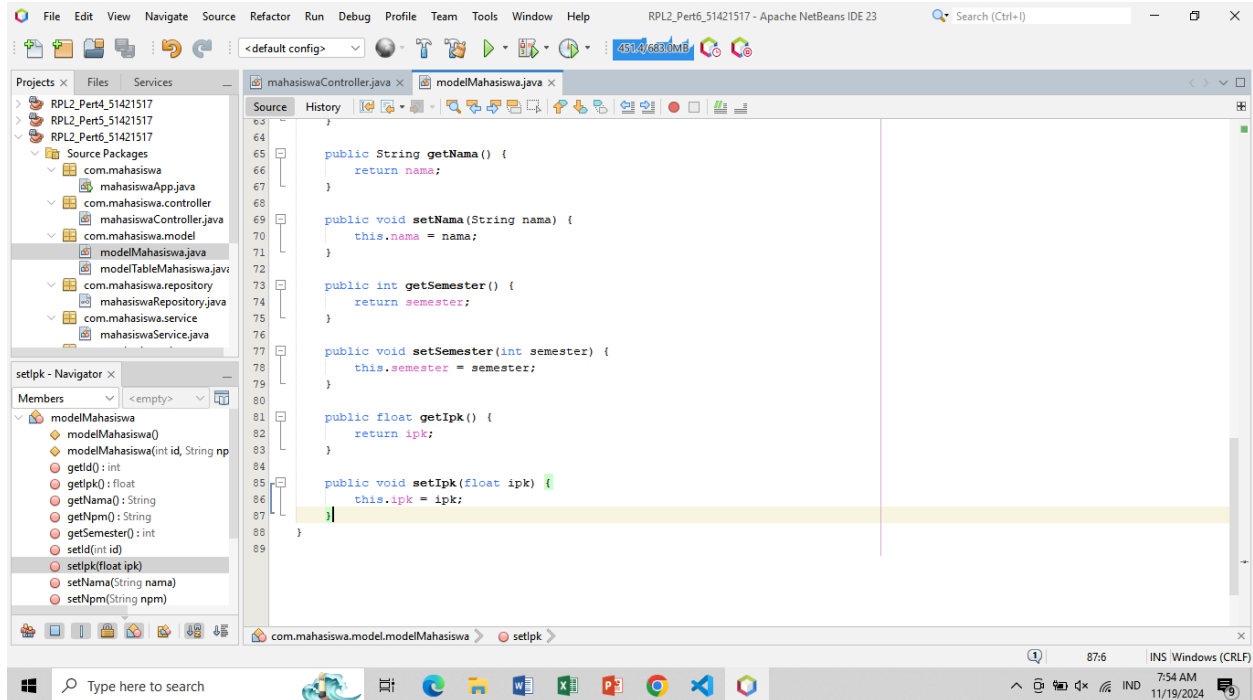
2024

Screenshot activity :

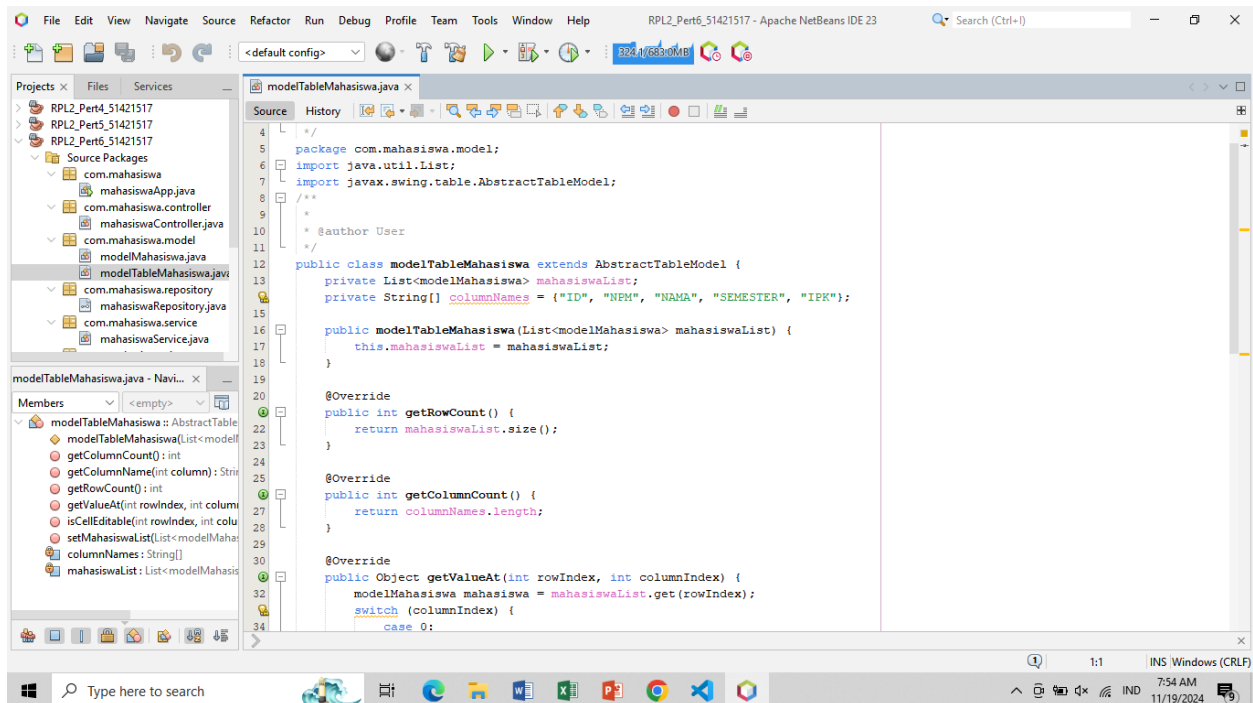
1. Kode :

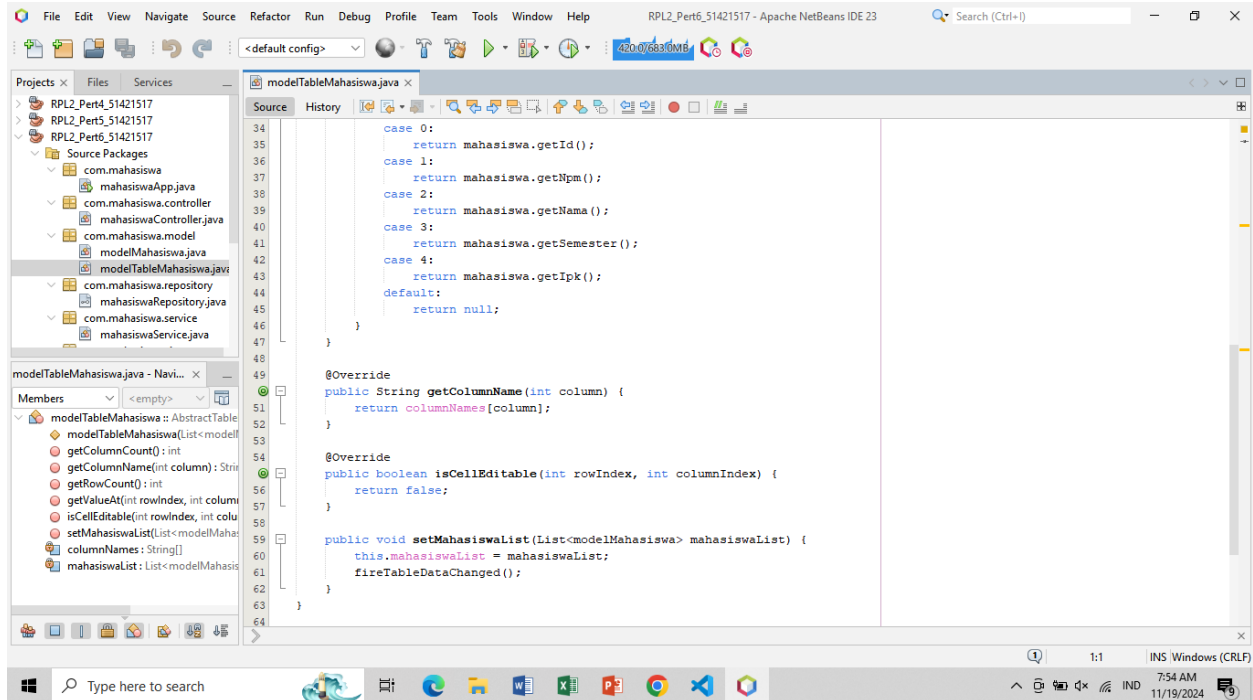
a. modelMahasiswa.java



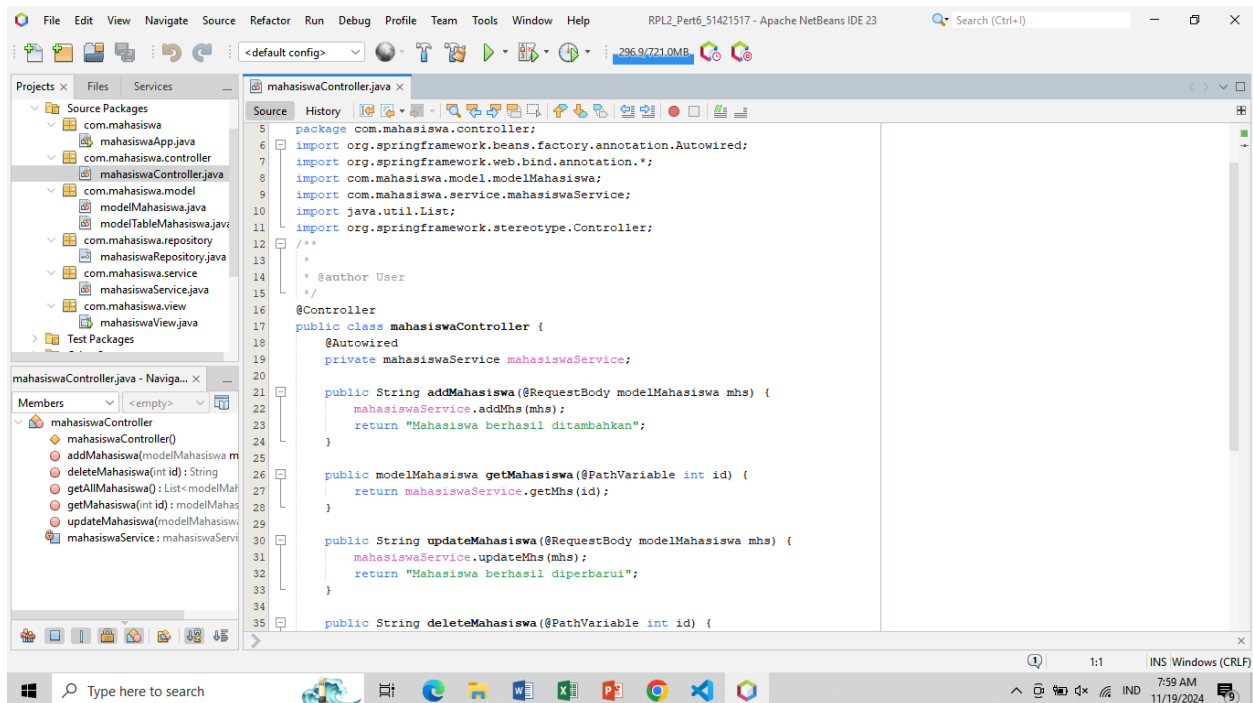


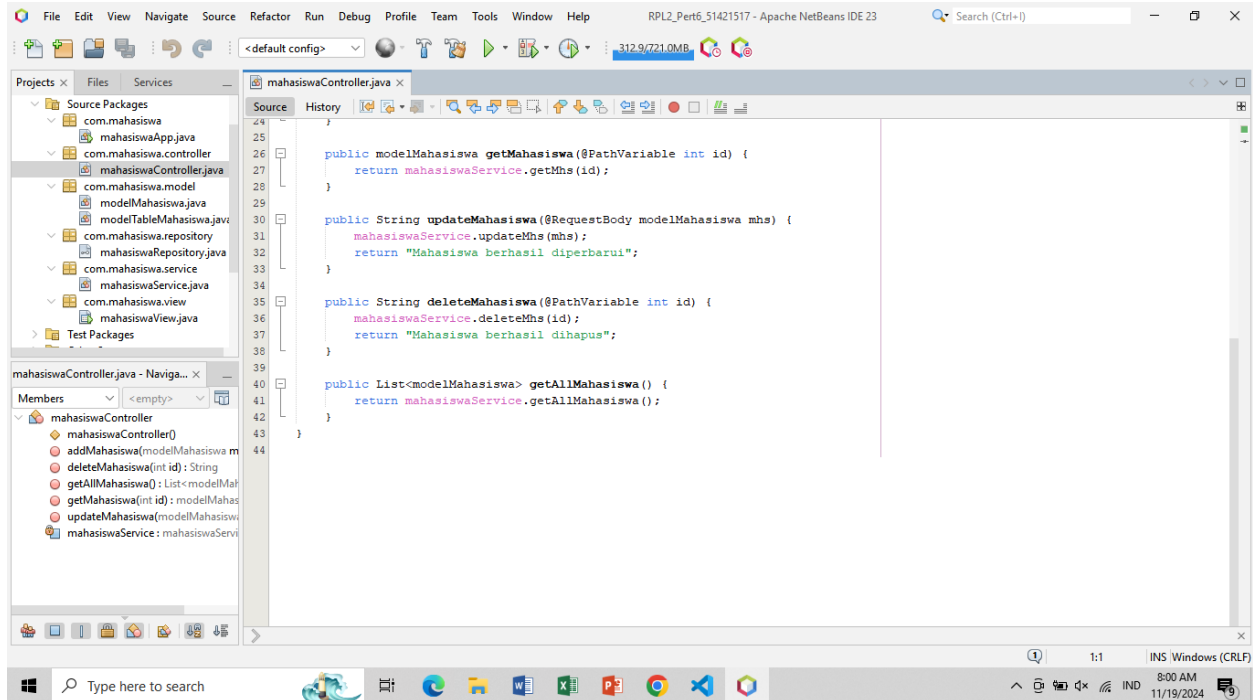
b. modelTableMahasiswa.java



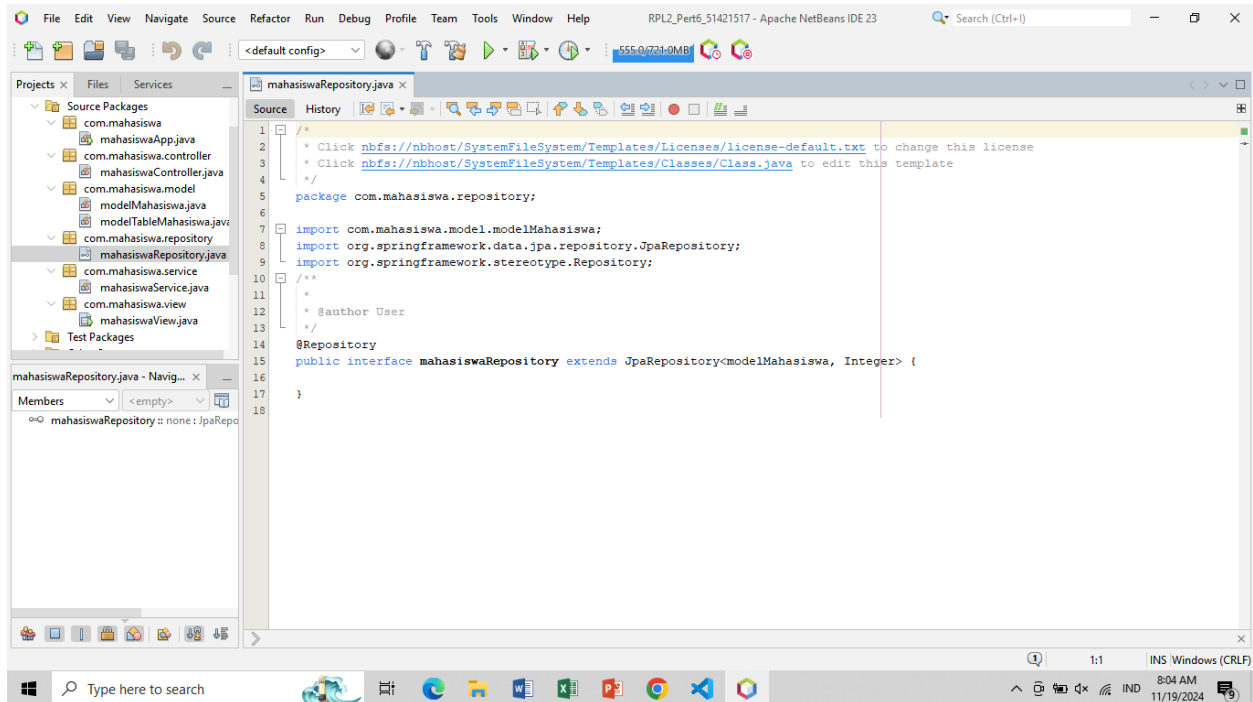


c. mahasiswaController.java

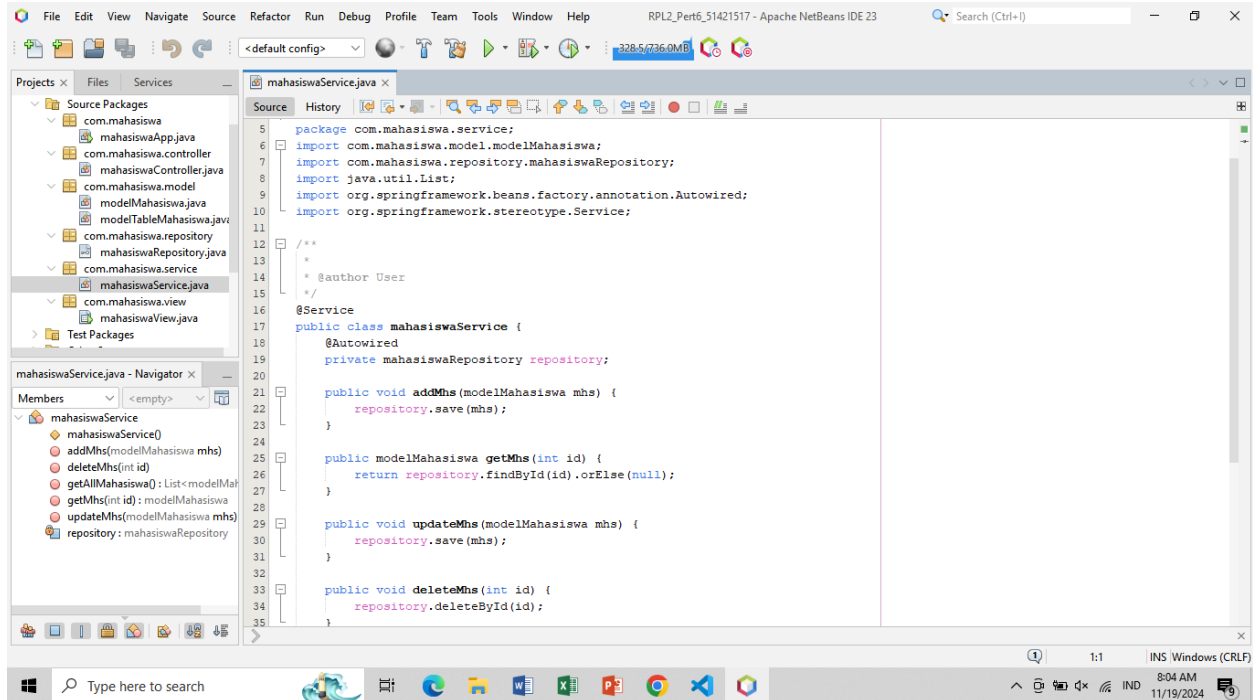




d. mahasiswaRepository.java



e. mahasiswaService.java



```
package com.mahasiswa.service;
import com.mahasiswa.model.modelMahasiswa;
import com.mahasiswa.repository.mahasiswaRepository;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

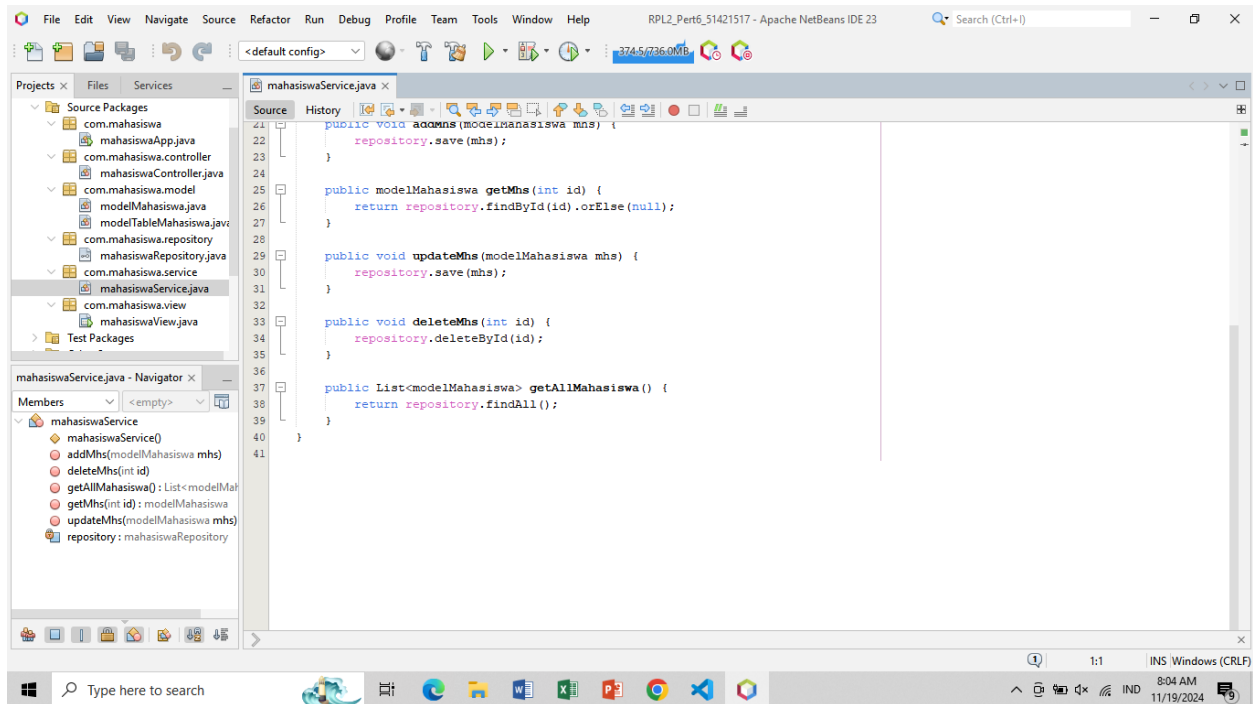
/**
 * @author User
 */
@Service
public class mahasiswaService {
    @Autowired
    private mahasiswaRepository repository;

    public void addMhs(modelMahasiswa mhs) {
        repository.save(mhs);
    }

    public modelMahasiswa getMhs(int id) {
        return repository.findById(id).orElse(null);
    }

    public void updateMhs(modelMahasiswa mhs) {
        repository.save(mhs);
    }

    public void deleteMhs(int id) {
        repository.deleteById(id);
    }
}
```



```
public void addMhs(modelMahasiswa mhs) {
    repository.save(mhs);
}

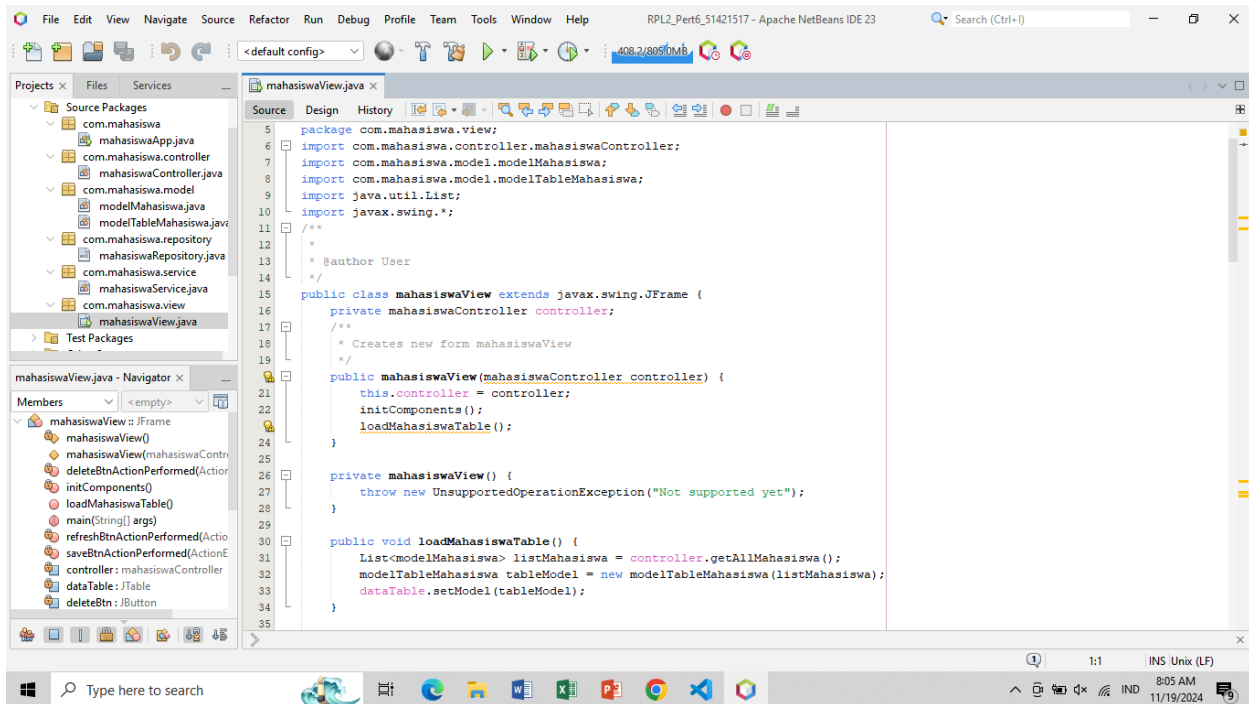
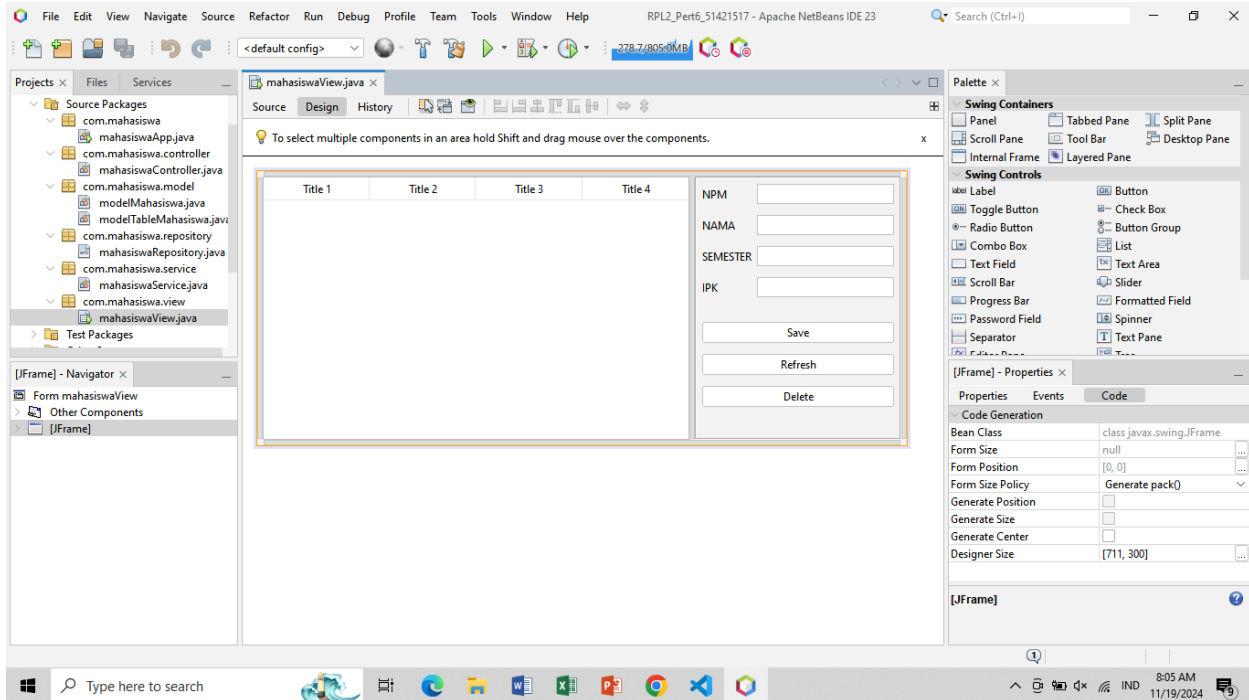
public modelMahasiswa getMhs(int id) {
    return repository.findById(id).orElse(null);
}

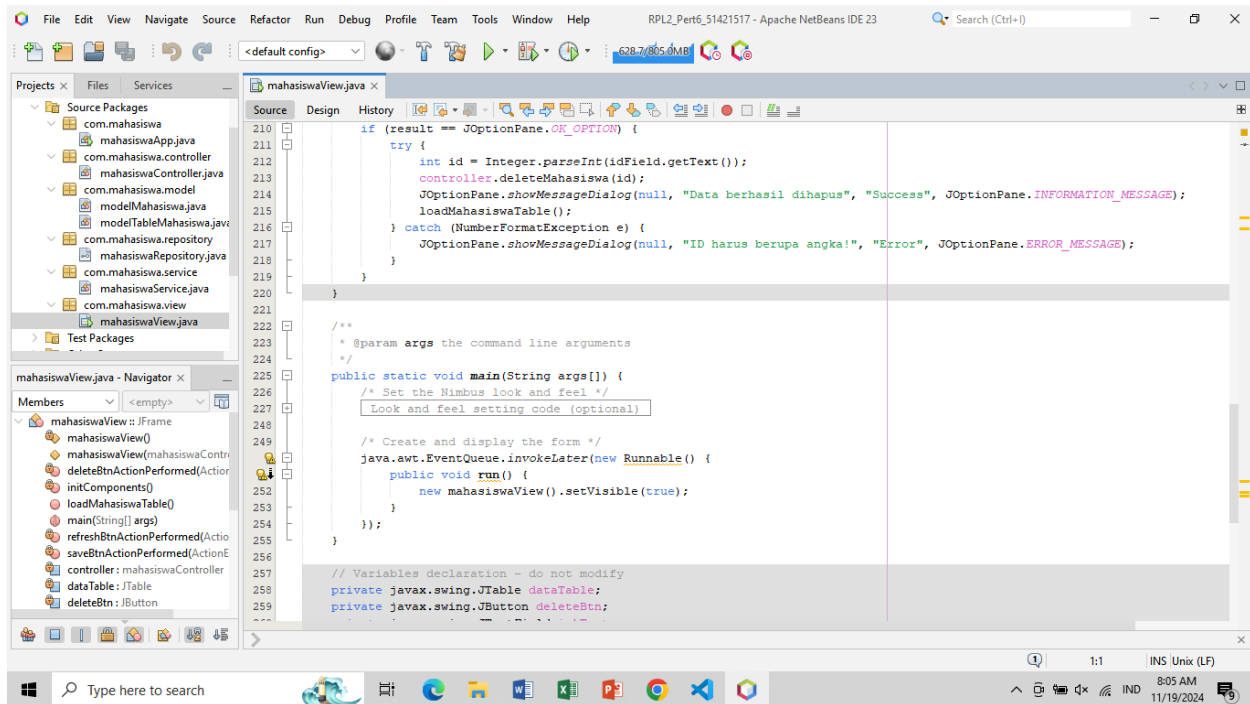
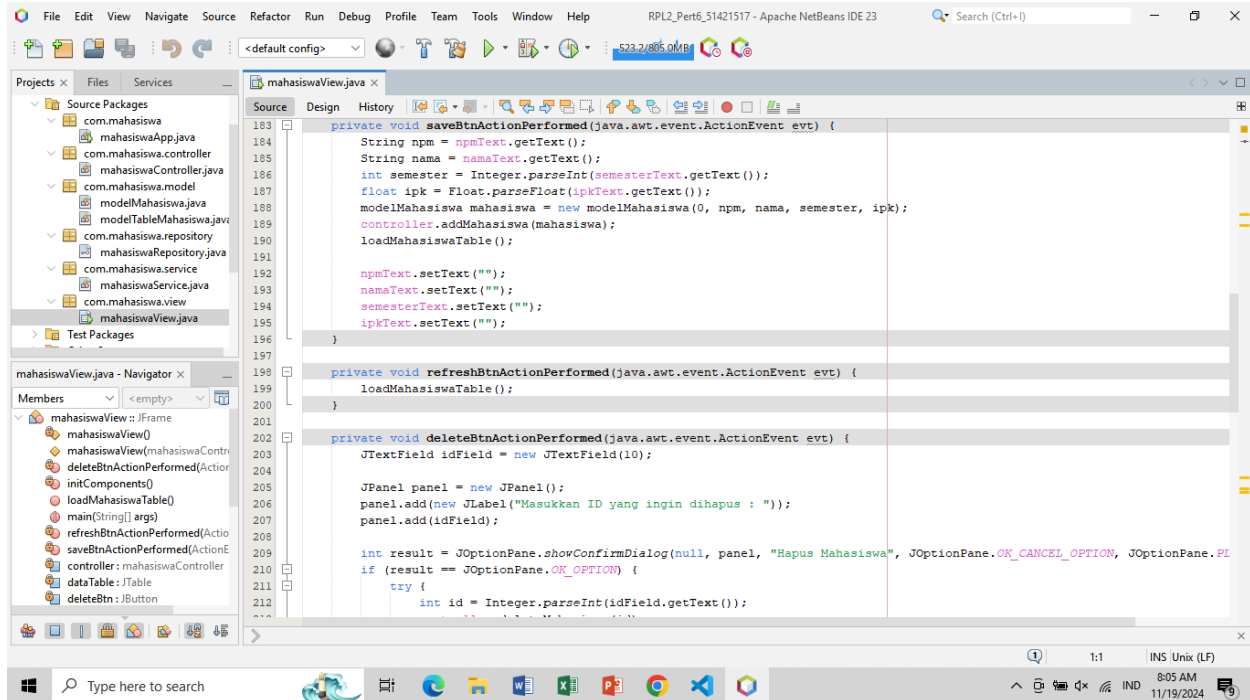
public void updateMhs(modelMahasiswa mhs) {
    repository.save(mhs);
}

public void deleteMhs(int id) {
    repository.deleteById(id);
}

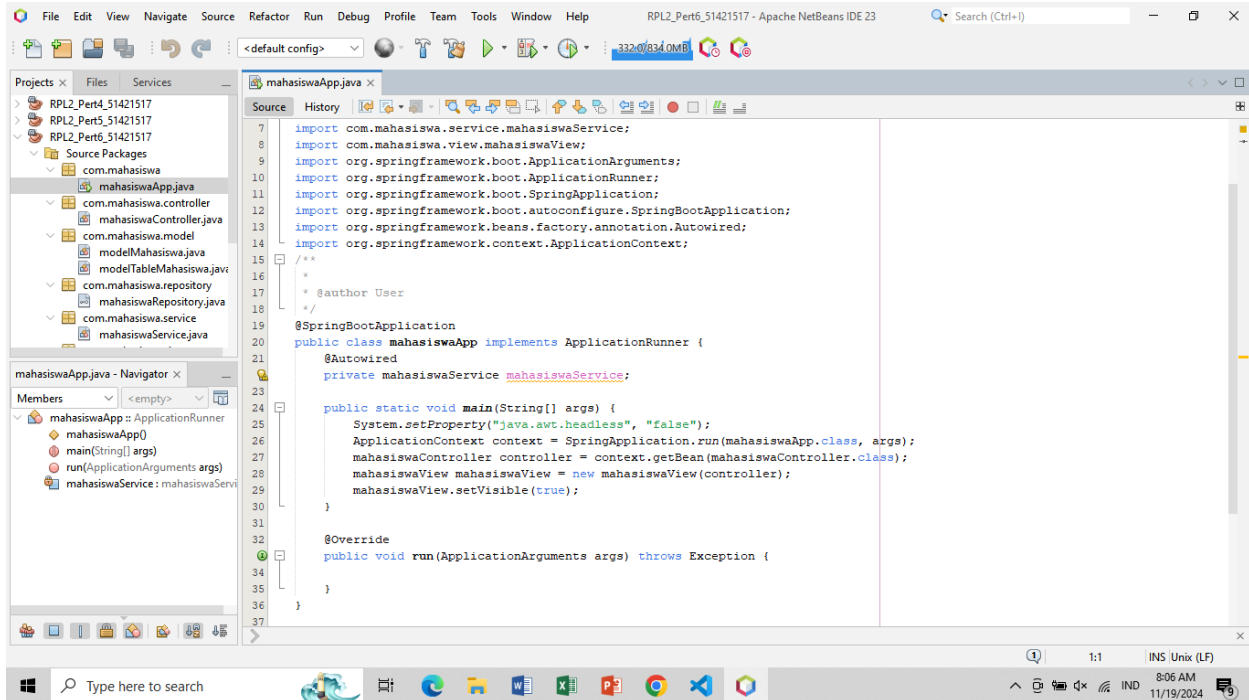
public List<modelMahasiswa> getAllMahasiswa() {
    return repository.findAll();
}
```

f. mahasiswaView.java

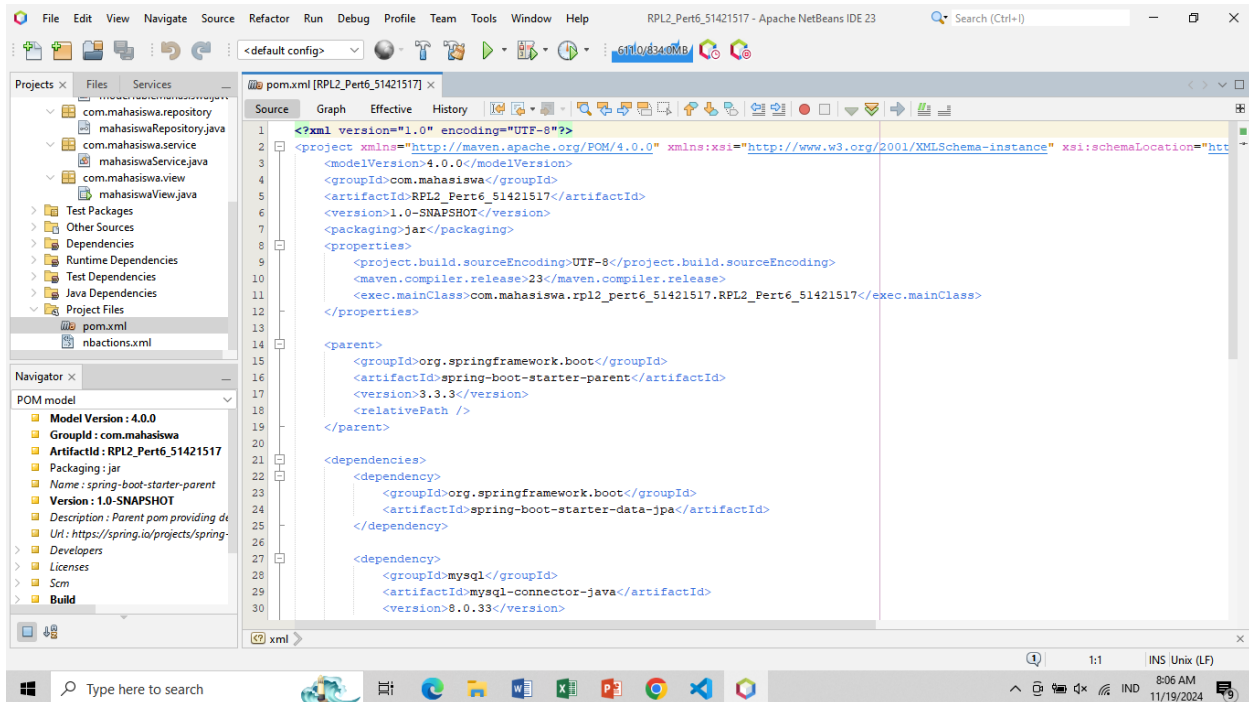


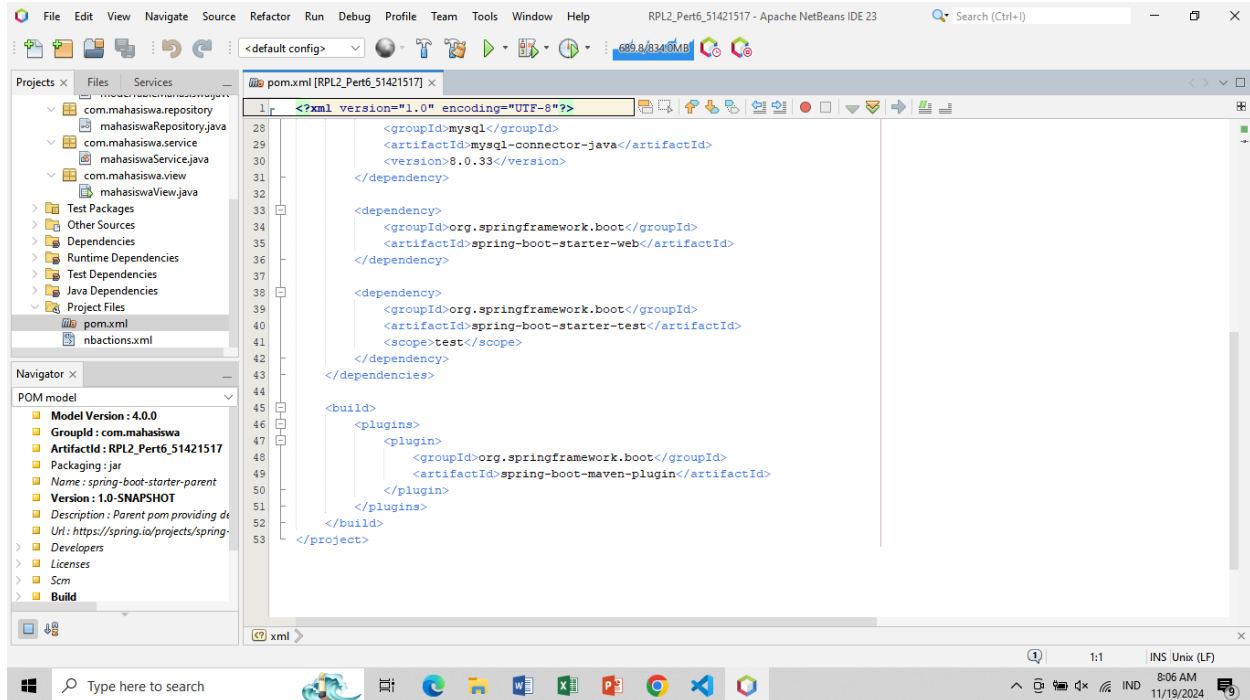


g. mahasiswaApp.java

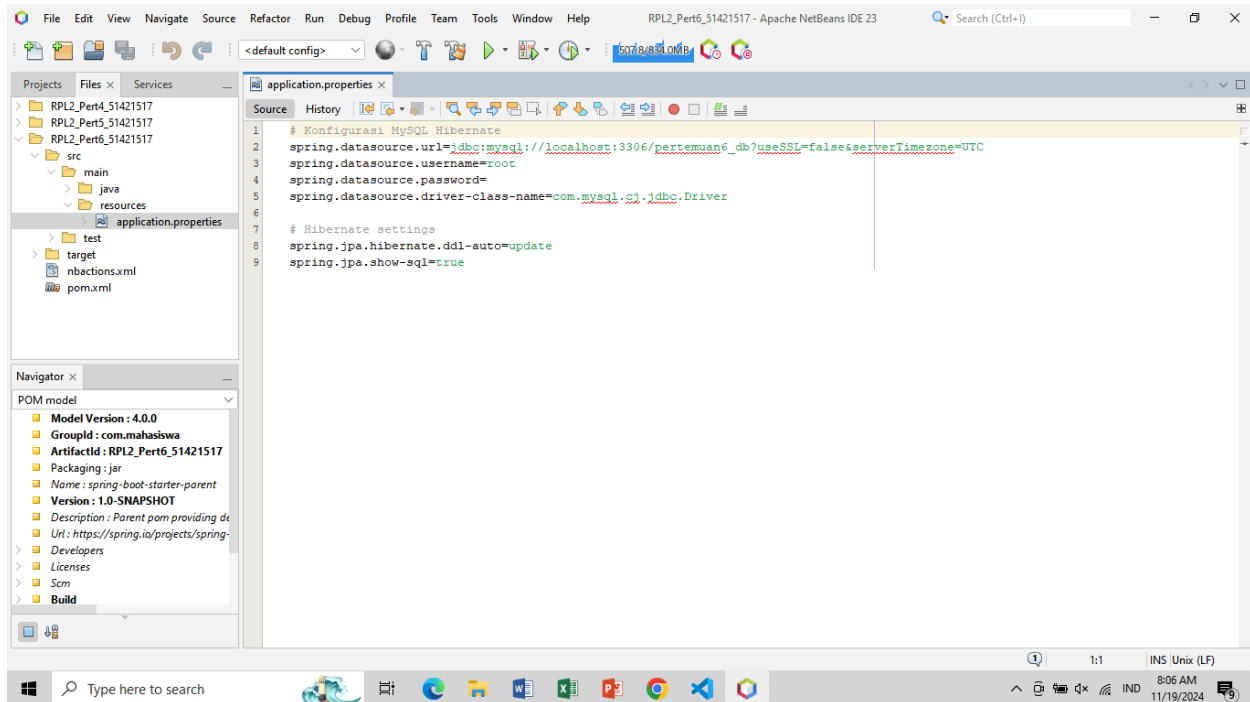


h. pom.xml





i. application.properties



2. Output :

Tampilan awal

A screenshot of a web application window. On the left, there is a table with five columns: ID, NPM, NAMA, SEMESTER, and IPK. The table is currently empty. On the right, there are four input fields labeled NPM, NAMA, SEMESTER, and IPK. Below these fields are three buttons: Save, Refresh, and Delete.

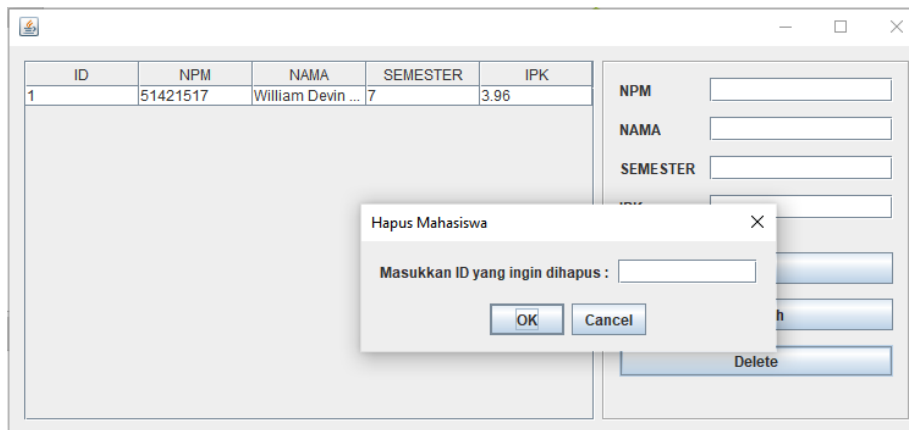
Tampilan memasukkan record

A screenshot of the same web application window. The input fields on the right are now filled with data: NPM is 51421517, NAMA is William Devin S.P., SEMESTER is 7, and IPK is 3.96. The Save, Refresh, and Delete buttons are still present below the fields.

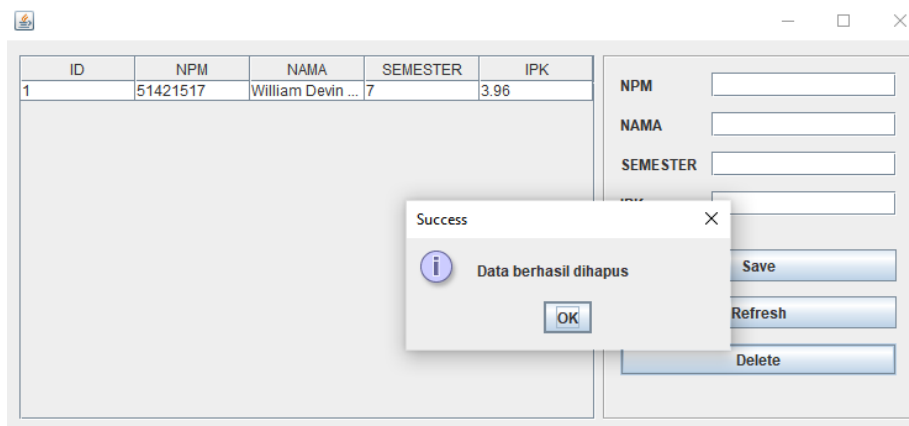
Tampilan ketika record berhasil ditambahkan

A screenshot of the web application window. The table on the left now contains one record with the following data: ID 1, NPM 51421517, NAMA William Devin S.P., SEMESTER 7, and IPK 3.96. The input fields on the right are now empty, and the Save, Refresh, and Delete buttons remain below them.

Tampilan dialog box setelah klik tombol Delete



Tampilan dialog box setelah menghapus record



Tampilan setelah record dihapus

