

ACTIVITY PERTEMUAN 6

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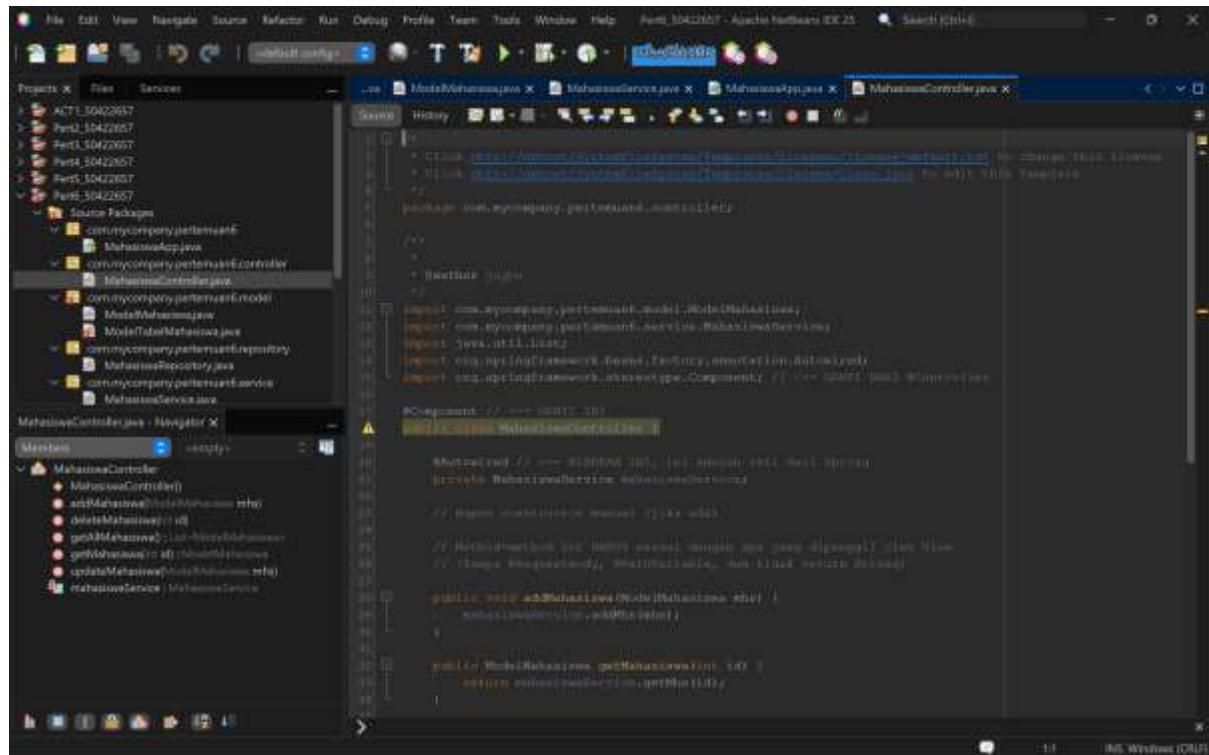
KELAS : 4IA01

MATERI : AOP

MATA PRAKTIKUM : Rekayasa Perangkat Lunak 2

1. Screenshot kode dan output dari program yang telah dibuat.

- MahasiswaController.java



The screenshot shows the Apache NetBeans IDE interface. The title bar reads "Pmt_50422657 - Apache NetBeans [IDE 25]". The left side features a "Projects" panel with several Java projects listed. The main area is a code editor for the file "MahasiswaController.java". The code is as follows:

```
package com.mycompany.perangkatlunak.controller;

import com.mycompany.perangkatlunak.model.Mahasiswa;
import com.mycompany.perangkatlunak.repository.MahasiswaRepository;
import com.mycompany.perangkatlunak.service.MahasiswaService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;

@Component
public class MahasiswaController {
    @Autowired
    private MahasiswaService mahasiswaService;

    public MahasiswaController() {
    }

    public void setMahasiswa(Mahasiswa mhs) {
        this.mahasiswaService.setMahasiswa(mhs);
    }

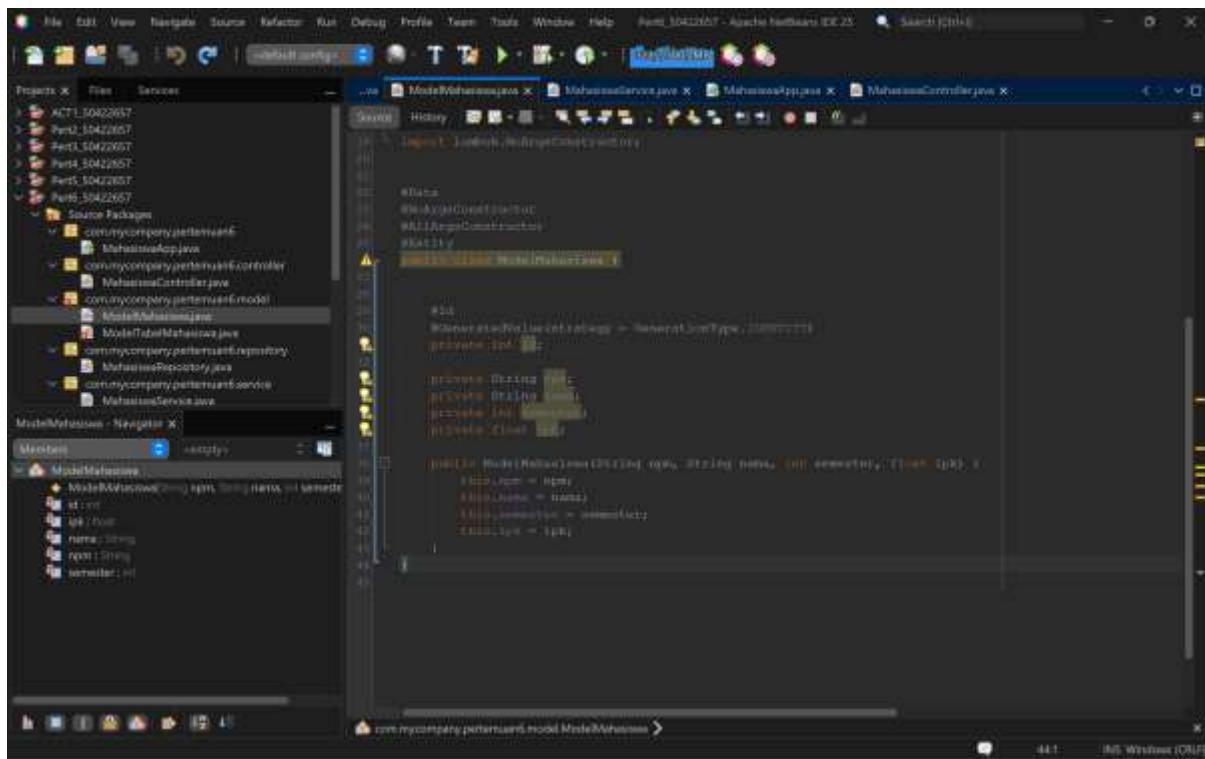
    public void deleteMahasiswa(int id) {
        this.mahasiswaService.deleteMahasiswa(id);
    }

    public Mahasiswa getMahasiswa(int id) {
        return this.mahasiswaService.getMahasiswa(id);
    }

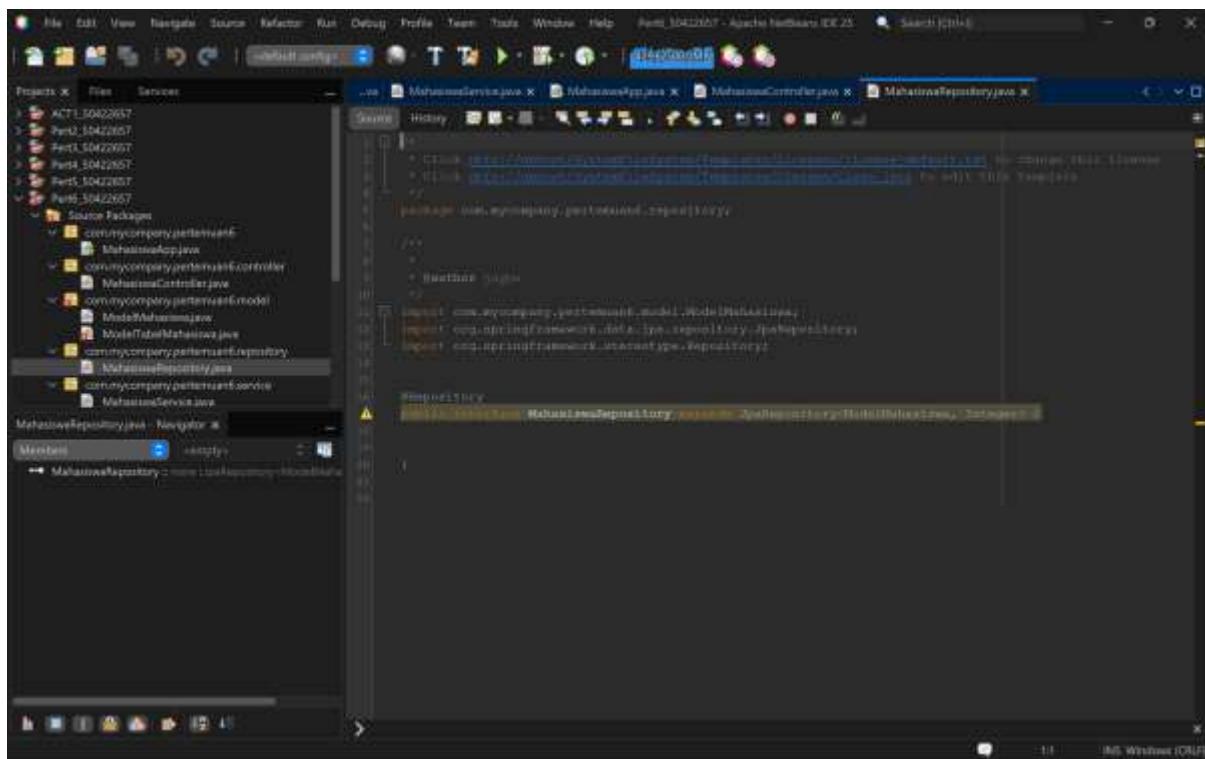
    public void updateMahasiswa(Mahasiswa mhs) {
        this.mahasiswaService.updateMahasiswa(mhs);
    }

    public void mahasiswaService(MahasiswaService mhs) {
        this.mahasiswaService = mhs;
    }
}
```

- ModelMahasiswa.java



- MahasiswaRepository.java



- ModelTabelMahasiswa.java

- MahasiswaService.java

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a port number indicator (Port 10420/HTTP - Apache NetBeans IDE 2.5). The title bar displays "MahasiswaService.java - MahasiswaApp.java - MahasiswaController.java - MahasiswaRepository.java - MahasiswaService.java - Navigator".

The left sidebar contains the Projects, Files, and Services tabs. Under the Projects tab, the package structure is visible:

- Source Packages:
 - com.mycompany.pertemuan6
 - com.mycompany.pertemuan6.controller
 - com.mycompany.pertemuan6.model
 - MyFirstMahasiswa
 - MyFirstMahasiswa.java
 - MyFirstMahasiswaRepository
 - MyFirstMahasiswaRepository.java
 - com.mycompany.pertemuan6.service
 - MahasiswaService
- Test Packages
- Other Sources
 - aptlyse/maven
 - <default package>
 - association.properties

The Navigator window at the bottom left lists the members of the `MahasiswaService` class:

- MahasiswaService
- addMahasiswa(mahasiswa)
- deleteMahasiswa()
- getAllMahasiswa()
- getMahasiswaById(Mahasiswa mahasiswa)
- updateMahasiswa(mahasiswa)
- repository(MahasiswaRepository)

The main code editor window displays the `MahasiswaService.java` file. The code imports various packages including `com.mycompany.pertemuan6.model`, `java.util.List`, `org.springframework.beans.factory.annotation.Autowired`, and `org.springframework.stereotype.Service`. It defines a service class with methods for adding, deleting, getting all, getting by ID, updating, and repository.

- MahasiswaView.java

The screenshot shows the Apache NetBeans IDE interface with the following details:

- Project Explorer:** Shows the project structure under "Source Packages".
 - com.mycompany.permauland
 - MahasiswaApp.java
 - MahasiswaController.java
 - MahasiswaControllerModel
 - MahasiswaControllerView
 - MahasiswaRepository.java
 - MahasiswaService.java
 - MahasiswaView.java
- MahasiswaView.java - Navigator:** Shows the members of the MahasiswaView class.
- Code Editor:** Displays the Java code for MahasiswaView.java, which includes methods like `getMahasiswaTable()`, `getMahasiswaList()`, and `getMahasiswaCount()`.

- **MahasiswaApp.java**

The screenshot shows the Apache NetBeans IDE interface with the following details:

- Project Explorer:** Shows the project structure under "Source Packages".
 - Perul1_SMA2267
 - Perul2_SMA2267
 - Perul3_SMA2267
 - Perul4_SMA2267
 - Perul5_SMA2267
 - Perul6_SMA2267
 - com.mycompany.permauland
 - MahasiswaApp.java
 - MahasiswaController.java
 - MahasiswaControllerModel
 - MahasiswaControllerView
 - MahasiswaRepository.java
 - MahasiswaService.java
- MahasiswaApp.java - Navigator:** Shows the members of the MahasiswaApp class.
- Code Editor:** Displays the Java code for MahasiswaApp.java, which includes imports for Spring and JPA, and annotations like `@SpringBootApplication` and `@EntityScan`.

- **Pom.xml**

The screenshot shows the Apache NetBeans IDE interface with the 'perman' project selected. The left pane displays the project structure with several Java files like 'MahasiswaController.java', 'MahasiswaRepository.java', 'MahasiswaService.java', and 'MahasiswaTable.java'. The right pane shows the 'Maven Dependencies' tab of the 'Dependencies' tool window. It lists various dependencies including 'org.springframework.boot:spring-boot-starter-web:2.2.6.RELEASE', 'org.springframework.boot:spring-boot-starter-data-jpa:2.2.6.RELEASE', and 'com.mysql:mysql-connector-java:8.0.18'. The code editor at the bottom shows the 'application.properties' file.

```
dependencies
    dependency
        groupid: org.springframework.boot
        artifactid: spring-boot-starter-web
        version: 2.2.6.RELEASE
    dependency
        groupid: org.springframework.boot
        artifactid: spring-boot-starter-data-jpa
        version: 2.2.6.RELEASE
    dependency
        groupid: com.mysql
        artifactid: mysql-connector-java
        version: 8.0.18
```

- Application.properties

The screenshot shows the 'application.properties' file open in the code editor. It contains configuration properties for the application, including database settings for MySQL and Spring Boot.

```
spring.datasource.url=jdbc:mysql://localhost:3306/perman
spring.datasource.username=root
spring.datasource.password=root
spring.datasource.driverClassName=com.mysql.cj.jdbc.Driver
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
```

- Output

