Activity Pertemuan 5

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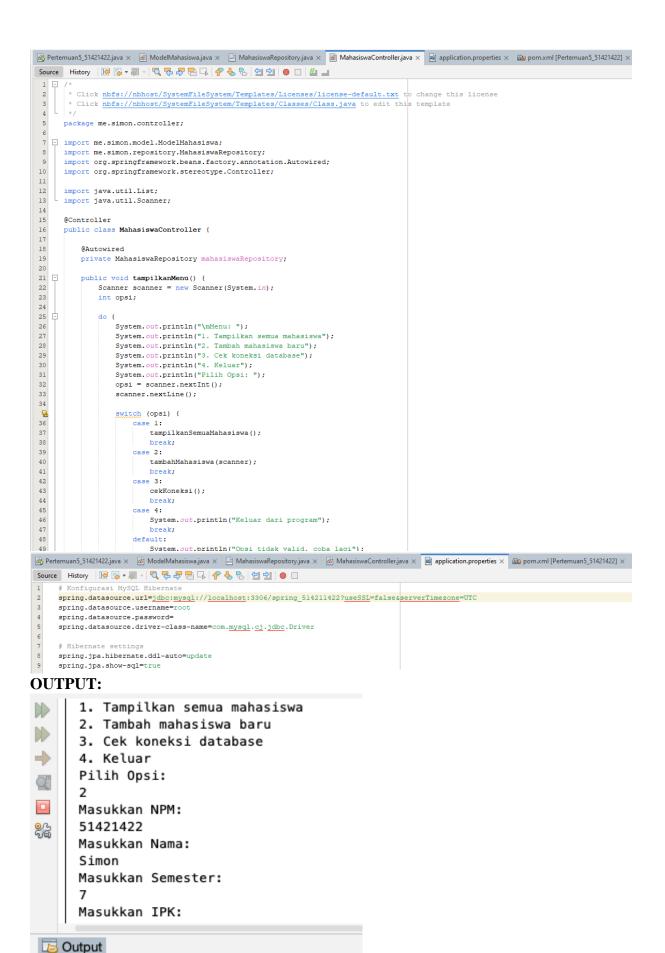
Kelas : 4IA14

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1. **Code:**

```
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* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
      package me.simon;
7 import me.simon.controller.MahasiswaController;
      import org.springframework.beans.factory.annotation.Autowired;
      import org.springframework.boot.CommandLineRunner;
    import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
      public class Pertemuan5_51421422 implements CommandLineRunner {
         private MahasiswaController mhsController;
22 =
23 24
25
          SpringApplication.run(Pertemuan5_51421422.class, args);
}
         public static void main(String[] args) {
26
26
28
29
30
          public void run(String... args) throws Exception {
    mhsController.tampilkanMenu();
```

```
🚳 Pertemuan5_51421422.java x 🔞 ModelMahasiswa.java x 🔯 MahasiswaRepository.java x 🔞 MahasiswaController.java x 📵 application.properties x 🕮 pom.xml [Pertemuan5_51421422] x
1 🗏 /
       * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
      * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
     package me.simon.model;
 7 = import jakarta.persistence.*;
      @Table(name = "mahasiswa")
10
      public class ModelMahasiswa {
12
13
14
          @GeneratedValue(strategy = GenerationType.IDENTITY)
15
         @Column(name = "id")
17
       @Column(name = "npm", nullable = false, length = 10)
private String npm;
19
       @Column(name = "nama", nullable = false, length = 55)
private String nama;
22
24
         @Column(name = "semester")
25
         private int semester;
26
          @Column(name = "ipk")
29
30 public ModelMahasiswa() {
31
32
34 🖃
          public ModelMahasiswa(int id, String npm, String nama, int semester, float ipk) {
            this.id = id;
              this.npm = npm;
36
             this.nama = nama;
38
             this.semester = semester;
            this.ipk = ipk;
39
40
41
42 🖃
         public int getId() {
         return id;
43
44
46
          public void setId(int id) {
         this.id = id;
48
👸 Pertemuan5_51421422.java x 🔞 ModelMahasiswa.java x 🔯 MahasiswaRepository.java x 🚳 MahasiswaController.java x 🔊 application.properties x 👜 pomxml [Pertemuan5_51421422] x
Source History | 🔀 👼 🔻 🔻 - | 🔼 🐉 🖶 🖫 | <equation-block> 🕆 😓 | 🔩 💇 | 💿 🗆 | 🚜 🚅
       * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
    * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
      package me.simon.repository:
 7 import me.simon.model.ModelMahasiswa;
    import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;
10 🖵 /**
      * @author totos
12
     @Repository
     public interface MahasiswaRepository extends JpaRepository<ModelMahasiswa, Long> {
17
```



2. Dependency Injection (DI) adalah sebuah pola desain yang digunakan untuk mengelola dan menyuntikkan (inject) dependensi antar komponen dalam aplikasi. Dalam konteks Spring Framework, DI mengacu pada cara Spring mengelola objek-objek dalam aplikasi dan menyediakan objek-objek tersebut ke dalam komponen lain sesuai dengan kebutuhan.