

ACTIVITY PERTEMUAN 1

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NPM : 50421548

KELAS : 4IA14

MATERI : KONSEP MVC

MATA PRAKTIKUM : Praktikum RPL 2 M3

(Screenshoot langkah-langkah sesuai video pembelajaran dan jelaskan dengan ringkas)

Jawab :

The image shows a side-by-side comparison of a video player and a database management interface. The video player on the left displays a YouTube video titled 'RPL Pertemuan 3 | 4IA14, 4IA16, 4IA17' by 'Asisten Labo...' with 322 subscribers. The video is at 2:59 / 33:27. The database interface on the right is for a server at localhost/127.0.0.1 / mvc_504, with a database named 'mvc_50421548'. It shows the structure of a table named 'mahasiswa'. The table has five columns: 'id' (INT, 11), 'nama' (VARCHAR, 55), 'npm' (VARCHAR, 10), 'semester' (FLOAT, 3), and 'ipk' (FLOAT, 3). All columns have a default value of 'None' and no collation. The 'id' column is marked as the primary key. The interface also includes options for table comments, collation, and storage engine.

Name	Type	Length/Values	Default	Collation
id	INT	11	None	
nama	VARCHAR	55	None	
npm	VARCHAR	10	None	
semester	FLOAT	3	None	
ipk	FLOAT	3	None	

localhost / 127.0.0.1 / mvc_5042

localhost/phpmy...

Apps Remove Background... (117) All Bookmarks

Server: 127.0.0.1 » Database: mvc_50421548 » Table: mahasiswa

Table structure

Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1 id	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2 nama	varchar(55)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	3 npm	varchar(10)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	4 semester	float			No	None		
<input type="checkbox"/>	5 ipk	float			No	None		

☐ Check all

With selected:

☐ Browse

☐ Change

☐ Drop

☐ Primary

☐ Unique

☐ Index

☐ Spatial

☐ Fulltext

☐ Add to central columns

☐ Remove from central columns

Print

Propose table structure

Track table

Move columns

Normalize

Add

1

column(s)

after ipk

Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null
<div><input type="checkbox"/> Edit <input type="checkbox"/> Rename <input type="checkbox"/> Drop</div>	PRIMARY	BTREE	Yes	No	id	0	A	No

Create an index on 1 columns

Go

Partitions

Console

New Java Application

×

Steps

1. Choose Project

2. **Name and Location**

Name and Location

Project Name:

pert3_50421548

Project Location:

C:\Users\Gerald Loppies\Documents\NetBeansProjects

Browse...

Project Folder:

ald Loppies\Documents\NetBeansProjects\pert3_50421548

Artifact Id:

pert3_50421548

Group Id:

me.gege.mahasiswa

Version:

1.0-SNAPSHOT

Package:

me.gege.mahasiswa.pert3_50421548

(Optional)

Writing pom.xml

< Back

Next >

Finish

Cancel

Help

File Edit View Navigate Source Refactor Run Debug Profile Team pert3... — □ ×

...va pom.xml [pert3_50421548] ×

Source Graph Effective History

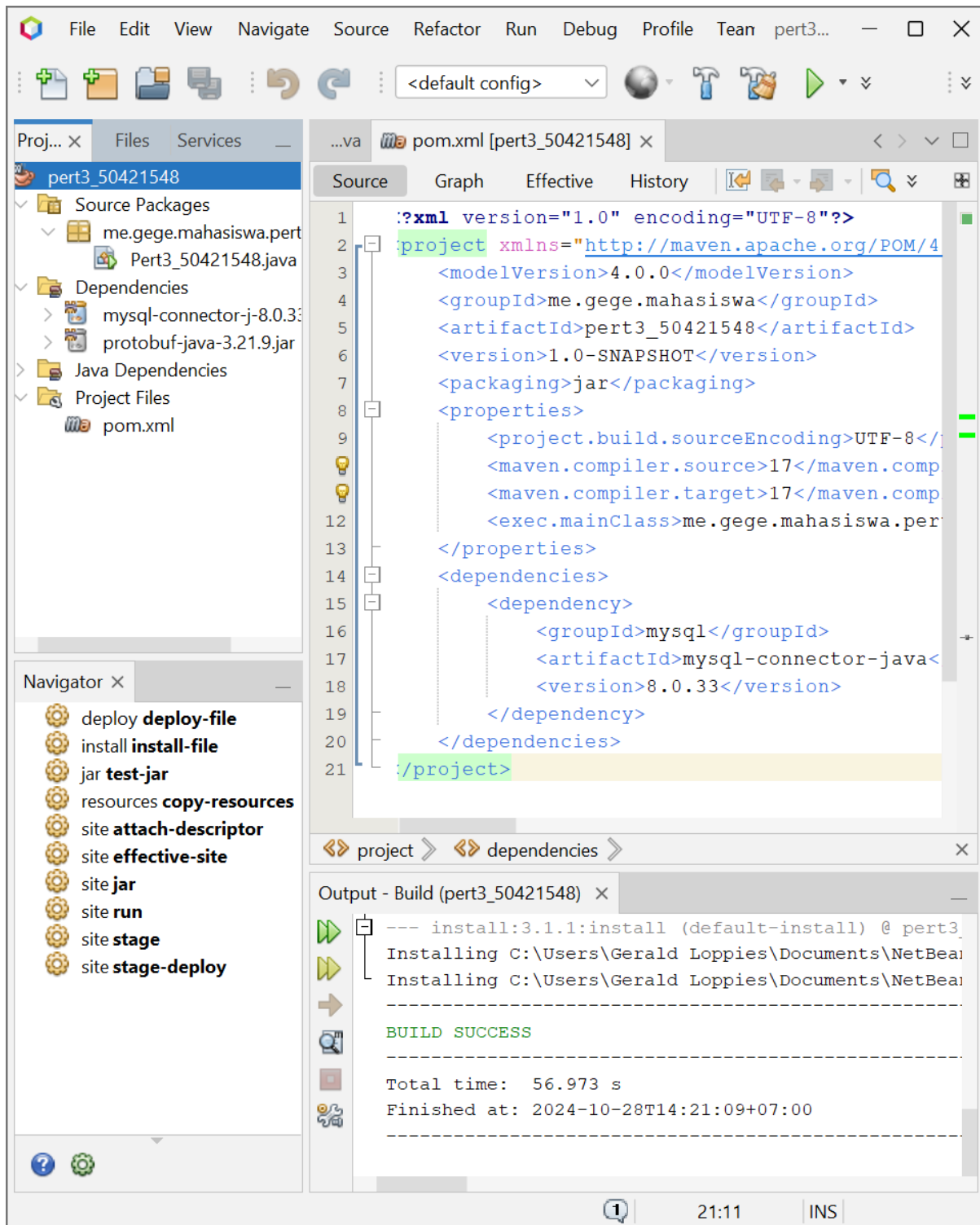
1 :?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4
3 <modelVersion>4.0.0</modelVersion>
4 <groupId>me.gege.mahasiswa</groupId>
5 <artifactId>pert3_50421548</artifactId>
6 <version>1.0-SNAPSHOT</version>
7 <packaging>jar</packaging>
8 <properties>
9 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
10 <maven.compiler.source>17</maven.compiler.source>
11 <maven.compiler.target>17</maven.compiler.target>
12 <exec.mainClass>me.gege.mahasiswa.pert3_50421548</exec.mainClass>
13 </properties>
14 <dependencies>
15 <dependency>
16 <groupId>mysql</groupId>
17 <artifactId>mysql-connector-java</artifactId>
18 <version>8.0.33</version>
19 </dependency>
20 </dependencies>
21 </project>

project dependencies

Output - Build (pert3_50421548) ×

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cd C:\Users\Gerald Loppies\Documents\NetBeansProjec
```

Build (pert3_50421548) × 21:11 INS



File Edit View Navigate Source Refactor Run Debug Profile Team pert3... — □ ×

... + + + + + <default config> ▾ 🌐 🛠️ 📦 ▶ ▾ ▾ ▾

Projects × Files Services —

- ▼ pert3_50421548
 - ▼ Source Packages
 - me.gege.mahasiswa.controller
 - me.gege.mahasiswa.model**
 - ▼ me.gege.mahasiswa.pert3_50421548
 - Pert3_50421548.java
 - me.gege.mahasiswa.view
 - ▼ Dependencies
 - > mysql-connector-j-8.0.33.jar
 - > protobuf-java-3.21.9.jar
 - ▼ Java Dependencies
 - ▼ Project Files
 - 📄 pom.xml

Navigator ×

POM model ▾

- Model Version : 4.0.0
- GroupId : me.gege.mahasiswa
- ArtifactId : pert3_50421548
- Packaging : jar
- Version : 1.0-SNAPSHOT
- > Dependencies
- > Properties

Source Graph Effective History ▾ 🛠️

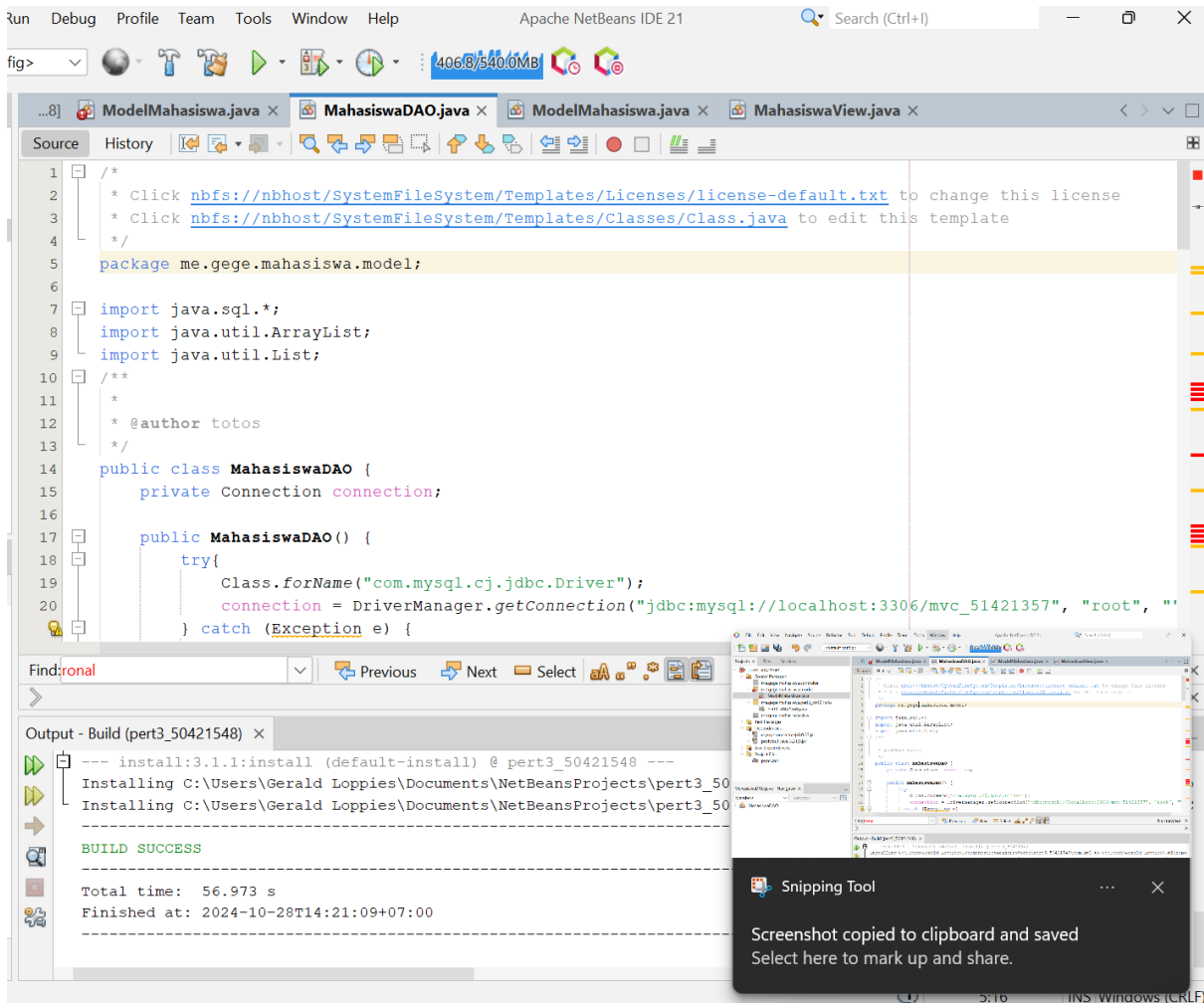
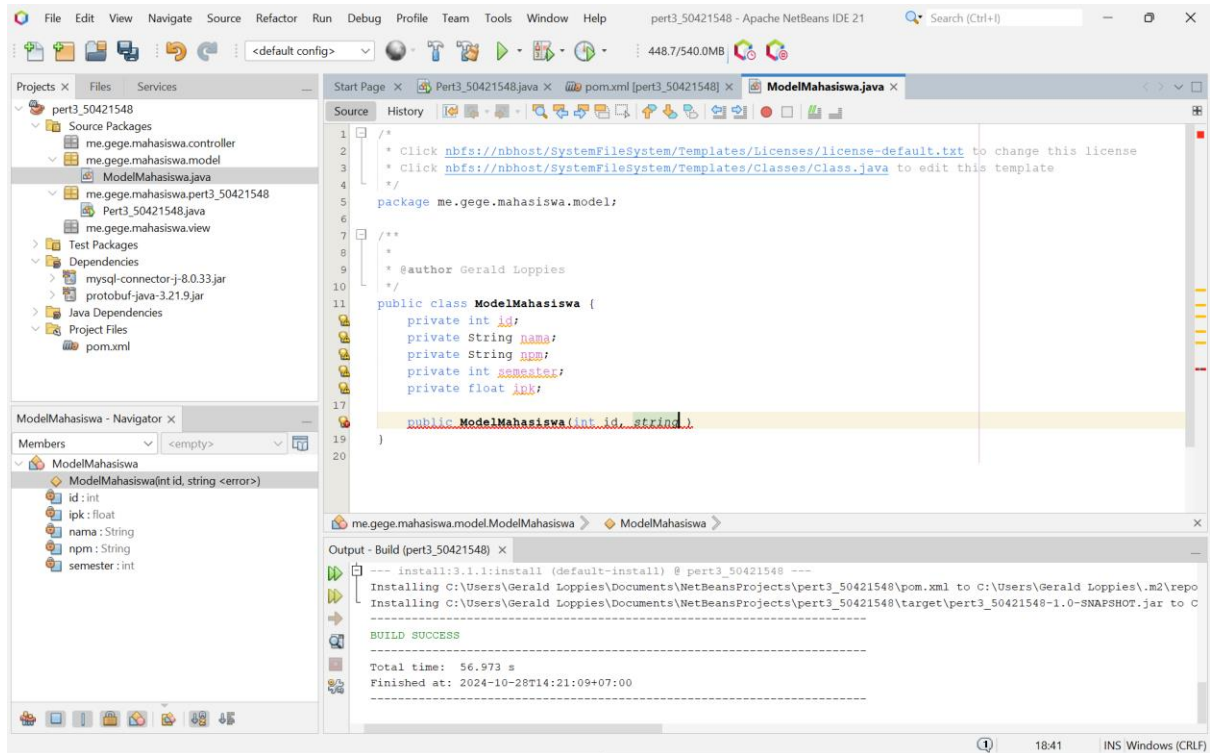
```
1  <?xml version="1.0" encoding="UTF-8" standalone="no" ?>
2  <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
4      <modelVersion>4.0.0</modelVersion>
5      <groupId>me.gege.mahasiswa</groupId>
6      <artifactId>pert3_50421548</artifactId>
7      <version>1.0-SNAPSHOT</version>
8      <packaging>jar</packaging>
9      <properties>
10         <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
11         <maven.compiler.source>1.8</maven.compiler.source>
12         <maven.compiler.target>1.8</maven.compiler.target>
13         <exec.mainClass>me.gege.mahasiswa.view</exec.mainClass>
14     </properties>
15     <dependencies>
16         <dependency>
17             <groupId>mysql</groupId>
18             <artifactId>mysql-connector-j</artifactId>
19             <version>8.0.33</version>
20         </dependency>
21     </dependencies>
22 </project>
```

project > ×

Output - Build (pert3_50421548) ×

```
--- install:3.1.1:install (default-install) @ pert3_50421548
Installing C:\Users\Gerald Loppi\Downloads\mysql-connector-j-8.0.33.jar
Installing C:\Users\Gerald Loppi\Downloads\protobuf-java-3.21.9.jar
-----
BUILD SUCCESS
-----
Total time: 56.973 s
Finished at: 2024-10-28T14:21:09+07:00
-----
```

1 20:20 INS



```
...[8] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x
Source History
37 public void closeConnection() {
38     try {
39         if(connection != null) {
40             connection.close();
41         }
42     } catch (SQLException e) {
43         e.printStackTrace();
44     }
45 }
46
47 public void addMahasiswa(ModelMahasiswa mahasiswa) {
48     String sql = "INSERT INTO mahasiswa (npm, nama, semester, ipk) VALUES (?, ?, ?, ?)";
49     try {
50         PreparedStatement pstmt = connection.prepareStatement(sql);
51         pstmt.setString(1, mahasiswa.getNpm());
52         pstmt.setString(2, mahasiswa.getNama());
53         pstmt.setInt(3, mahasiswa.getSemester());
54         pstmt.setFloat(4, mahasiswa.getIpk());
55         pstmt.executeUpdate();
56     } catch (SQLException e) {
57         e.printStackTrace();
58     }
59 }
Find:ronal No matches x
Output - Build (pert3_50421548) x
```

```
...[8] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x
Source History
60 public List<ModelMahasiswa> getAllMahasiswa() {
61     List<ModelMahasiswa> mahasiswaList = new ArrayList<>();
62     String sql = "SELECT * FROM mahasiswa";
63     try {
64         Statement stmt = connection.createStatement();
65         ResultSet rs = stmt.executeQuery(sql);
66         while(rs.next()) {
67             mahasiswaList.add(new ModelMahasiswa(
68                 rs.getInt("id"),
69                 rs.getString("npm"),
70                 rs.getString("nama"),
71                 rs.getInt("semester"),
72                 rs.getFloat("ipk")
73             ));
74         }
75     } catch (SQLException e) {
76         e.printStackTrace();
77     }
78     return mahasiswaList;
79 }
80 }
Find:ronal No matches x
Output - Build (pert3_50421548) x
--- install:3.1.1:install (default-install) @ pert3_50421548 ---
Installing C:\Users\Gerald Loppies\Documents\NetBeansProjects\pert3_50421548\pom.xml to C:\Users\Gerald Loppies\.m2\repo
Installing C:\Users\Gerald Loppies\Documents\NetBeansProjects\pert3_50421548\target\pert3_50421548-1.0-SNAPSHOT.jar to C
```



```

...8] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x
Source History
80 }
81
82 public void updateMahasiswa(ModelMahasiswa mahasiswa){
83     String sql = "UPDATE mahasiswa SET npm = ?, nama = ?, semester = ?, ipk = ? WHERE id = ?";
84     try{
85         PreparedStatement pstmt = connection.prepareStatement(sql);
86         pstmt.setString(1, mahasiswa.getNpm());
87         pstmt.setString(2, mahasiswa.getNama());
88         pstmt.setInt(3, mahasiswa.getSemester());
89         pstmt.setFloat(4, mahasiswa.getIpk());
90         pstmt.setInt(5, mahasiswa.getId());
91     } catch(SQLException e) {
92         e.printStackTrace();
93     }
94 }
95
96 public void deleteMahasiswa(int id){
97     String sql = "DELETE FROM mahasiswa WHERE id = ?";
98     try{
99         PreparedStatement pstmt = connection.prepareStatement(sql);
100         pstmt.setInt(1, id);

```

Find:ronal No matches X

Output - Build (pert3_50421548) X

```

--- install:3.1.1:install (default-install) @ pert3_50421548 ---
Installing C:\Users\Gerald Loppies\Documents\NetBeansProjects\pert3_50421548\pom.xml to C:\Users\Gerald Loppies\.m2\repo
Installing C:\Users\Gerald Loppies\Documents\NetBeansProjects\pert3_50421548\target\pert3_50421548-1.0-SNAPSHOT.jar to C
BUILD SUCCESS

```

```

95
96 public void deleteMahasiswa(int id){
97     String sql = "DELETE FROM mahasiswa WHERE id = ?";
98     try{
99         PreparedStatement pstmt = connection.prepareStatement(sql);
100         pstmt.setInt(1, id);
101         pstmt.executeUpdate();
102     } catch(SQLException e){
103         e.printStackTrace();
104     }
105 }
106
107

```

```

Source History
1 /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5 package me.gegel.mahasiswa.model;
6
7 /**
8  *
9  * @author totos
10 */
11 public class ModelMahasiswa {
12     private int id;
13     private String nama;
14     private String npm;
15     private int semester;
16     private float ipk;
17
18     public ModelMahasiswa(int id, String nama, String npm, int semester, float ipk) {
19         this.id = id;
20         this.nama = nama;
21         this.npm = npm;
22         this.semester = semester;
23         this.ipk = ipk;

```

...8] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x

Source History

```
26 public int getId() {
27     return id;
28 }
29
30 public void setId(int id) {
31     this.id = id;
32 }
33
34 public String getName() {
35     return nama;
36 }
37
38 public void setName(String nama) {
39     this.nama = nama;
40 }
41
42 public String getNpm() {
43     return npm;
44 }
45
46 public void setNpm(String npm) {
```

Find:ronal No matches

Output - Build (pert3_50421548) x

--- install:3.1.1:install (default-install) @ pert3 50421548 ---

...0] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x

Source History

```
46 public void setNpm(String npm) {
47     this.npm = npm;
48 }
49
50 public int getSemester() {
51     return semester;
52 }
53
54 public void setSemester(int semester) {
55     this.semester = semester;
56 }
57
58 public float getIpk() {
59     return ipk;
60 }
61
62 public void setIpk(float ipk) {
63     this.ipk = ipk;
64 }
65
66
67 }
```

Find:ronal No

```
Source History
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4   */
5   package me.gege.mahasiswa.view;
6
7   import me.gege.mahasiswa.controller.MahasiswaController;
8   import me.gege.mahasiswa.model.MahasiswaDAO;
9   import java.util.Scanner;
10
11   /**
12    * @author totos
13    */
14   public class MahasiswaView {
15       public static void main(String[] args) {
16           MahasiswaDAO mahasiswaDAO = new MahasiswaDAO();
17           MahasiswaController mahasiswaController = new MahasiswaController(mahasiswaDAO);
18
19           Scanner scanner = new Scanner(System.in);
20           int pilihan;
21
22           while(true) {
```

```
...[8] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x
Source History
20   int pilihan;
21
22   while(true) {
23       System.out.println("Menu:");
24       System.out.println("1. Tampilkan Semua Mahasiswa");
25       System.out.println("2. Tambah Mahasiswa");
26       System.out.println("3. Update Mahasiswa");
27       System.out.println("4. Hapus Mahasiswa");
28       System.out.println("5. Cek Koneksi Database");
29       System.out.println("6. Keluar");
30       System.out.println("PILIH OPSI: ");
31       pilihan = scanner.nextInt();
32       scanner.nextLine();
33
34       switch (pilihan){
35           case 1:
36               mahasiswaController.displayAllMahasiswa();
37               break;
38
39           case 2:
40               // tambah mhs
41
42       }
43   }
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...8] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x
Source History
47 System.out.println("Masukkan IPK: ");
48 float ipk = scanner.nextFloat();
49 System.out.println(npm + nama + semester + ipk);
50
51 mahasiswaController.addMahasiswa(npm, nama, semester, ipk);
52 break;
53
54 case 3:
55 System.out.print("Masukkan ID mahasiswa: ");
56 int id = scanner.nextInt();
57 scanner.nextLine();
58
59 System.out.println("Masukkan NPM: ");
60 String npmBaru = scanner.next();
61 System.out.println("Masukkan Nama: ");
62 String namaBaru = scanner.next();
63 System.out.println("Masukkan Semester: ");
64 int semesterBaru = scanner.nextInt();
65 System.out.println("Masukkan IPK: ");
66 float ipkBaru = scanner.nextFloat();
67
Find:ronal Previous Next Select No matches
```

```
...8] ModelMahasiswa.java x MahasiswaDAO.java x ModelMahasiswa.java x MahasiswaView.java x
Source History
71 case 4:
72 System.out.print("Masukkan ID Mahasiswa: ");
73 int idHapus = scanner.nextInt();
74 mahasiswaController.deleteMahasiswa(idHapus);
75
76 case 5:
77 mahasiswaController.checkDatabaseConnection();
78 break;
79
80 case 6:
81 // keluar
82 mahasiswaController.closeConnection();
83 System.out.println("Program Selesai.");
84 return;
85
86 default:
87 System.out.println("Input Tidak Valid");
88
89 }
90 }
91 }
92
Find:ronal Previous Next Select No matches
```

```
Output - Build (pert3_50421548) x
--- install:3.1.1:install (default-install) @ pert3_50421548 ---
Installing C:\Users\Gerald Loppies\Documents\NetBeansProjects\pert3_50421548\pom.xml to C:\Users\Gerald Loppies\.m2\repo
Installing C:\Users\Gerald Loppies\Documents\NetBeansProjects\pert3_50421548\target\pert3_50421548-1.0-SNAPSHOT.jar to C
```

Mohon Maaf jika Belum selesai ka karna banyak error