

## ACTIVITY PERTEMUAN 3

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NPM : 51421596

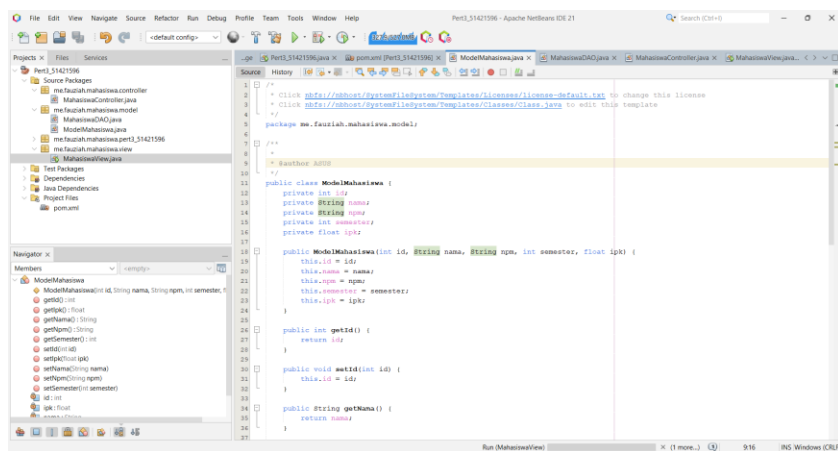
KELAS : 4IA14

MATERI : Konsep Model-View-Controller (MVC)

MATA PRAKTIKUM : RPL2

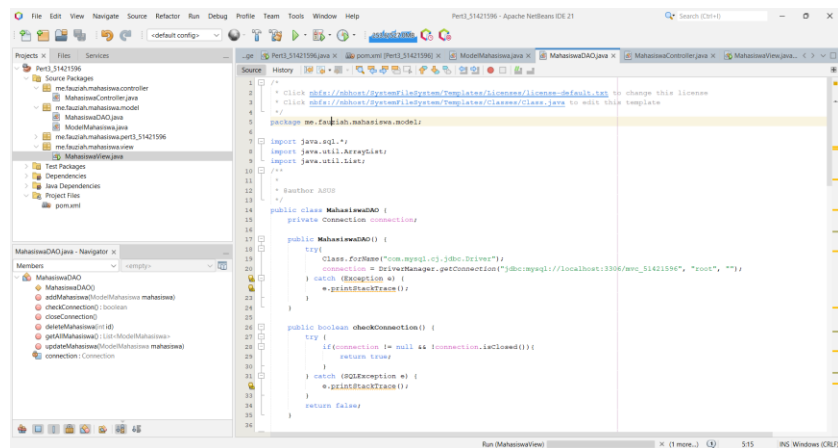
### Kode Program

#### ModelMahasiswa



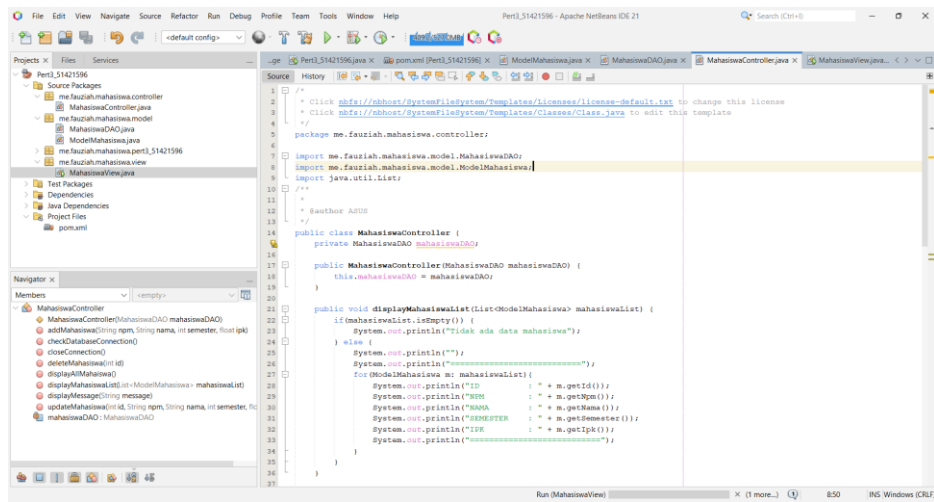
```
1  /*  
2   * Click the IDE icon in the top right corner to change this license  
3   * Click the IDE icon in the top right corner to change this license  
4   */  
5  
6  package me.fauziah.mahasiswa.model;  
7  
8  
9  
10  
11 public class ModelMahasiswa {  
12     private int id;  
13     private 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;  
24     }  
25  
26     public int getId() {  
27         return id;  
28     }  
29  
30     public void setId(int id) {  
31         this.id = id;  
32     }  
33  
34     public String getNama() {  
35         return nama;  
36     }  
37  
38     public void setNama(String nama) {  
39         this.nama = nama;  
40     }  
41  
42     public String getNpm() {  
43         return npm;  
44     }  
45  
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     public String toString() {  
67         return "ModelMahasiswa{" +  
68             "id=" + id + ", " +  
69             "nama=" + nama + ", " +  
70             "npm=" + npm + ", " +  
71             "semester=" + semester + ", " +  
72             "ipk=" + ipk + " }";  
73     }  
74  
75 }
```

#### MahasiswaDAO



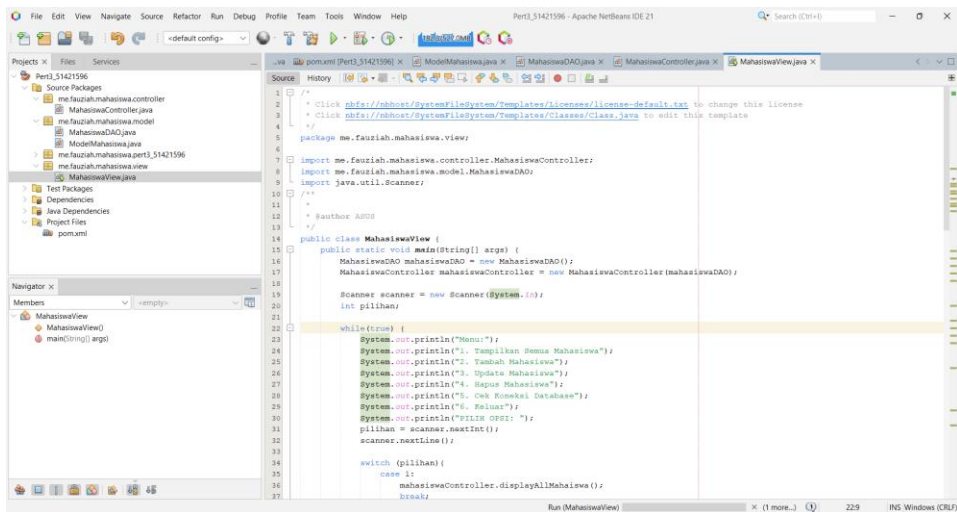
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4   */  
5  
6  package me.fauziah.mahasiswa.model;  
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10  
11 import java.sql.*;  
12 import java.util.ArrayList;  
13 import java.util.List;  
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# MahasiswaController



```
1  //
2  * Click https://hibernate.org/hibernate-orm/licenses/license-default.txt to change this license
3  * Click https://hibernate.org/hibernate-orm/licenses/license-default.txt to edit this template
4  */
5  package me.fauziah.mahasiswa.controller;
6
7  import me.fauziah.mahasiswa.model.MahasiswaDAO;
8  import me.fauziah.mahasiswa.model.ModeMahasiswa;
9  import java.util.List;
10
11  /**
12   * Author ASD
13   */
14  public class MahasiswaController {
15      private MahasiswaDAO mahasiswaDAO;
16
17      public MahasiswaController(MahasiswaDAO mahasiswaDAO) {
18          this.mahasiswaDAO = mahasiswaDAO;
19      }
20
21      public void displayMahasiswaList(List<ModeMahasiswa> mahasiswaList) {
22          if (mahasiswaList.isEmpty()) {
23              System.out.println("Tidak ada data mahasiswa");
24          } else {
25              System.out.println("");
26              System.out.println("=====");
27              for (ModeMahasiswa m : mahasiswaList) {
28                  System.out.println("ID      : " + m.getId());
29                  System.out.println("NIM    : " + m.getNim());
30                  System.out.println("Nama   : " + m.getNama());
31                  System.out.println("SEMESTER : " + m.getSemester());
32                  System.out.println("IDK    : " + m.getIdk());
33                  System.out.println("=====");
34              }
35          }
36      }
37  }
```

# MahasiswaView



```
1  //
2  * Click https://hibernate.org/hibernate-orm/licenses/license-default.txt to change this license
3  * Click https://hibernate.org/hibernate-orm/licenses/license-default.txt to edit this template
4  */
5  package me.fauziah.mahasiswa.view;
6
7  import me.fauziah.mahasiswa.controller.MahasiswaController;
8  import me.fauziah.mahasiswa.model.MahasiswaDAO;
9  import java.util.Scanner;
10
11  /**
12   * Author ASD
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) {
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 Rombel Database");
29              System.out.println("6. Exit");
30              System.out.println("PILIHAN OPSI : ");
31              pilihan = scanner.nextInt();
32              scanner.nextLine();
33
34              switch (pilihan) {
35                  case 1:
36                      mahasiswaController.displayAllMahasiswa();
37                      break;
38              }
39          }
40      }
41  }
```

# Output

