ACTIVITY PERTEMUAN 4

NAMA: FX Edrianto Putra Wijaya

NPM: 50421537 KELAS: 4IA13

MATERI: hibernate

MATA PRAKTIKUM: Rekayasa Perangkat Lunak 2

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

1. A. Label: memberikan info tentang apa yang harus diinputkan ke textbox

B. Textbox: mendapatkan input dari user

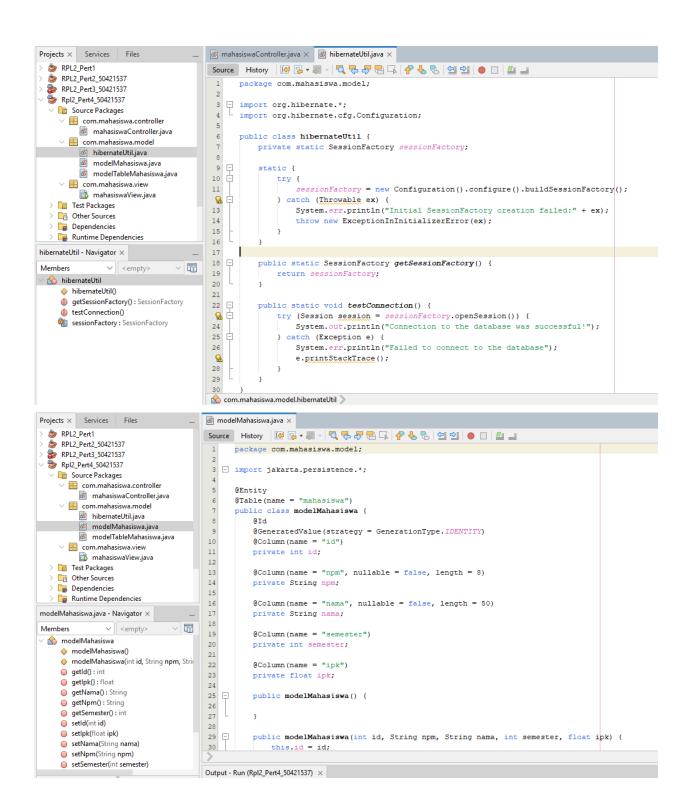
C. Button: menjalankan programming yang telah diketik ketika diclick

D. Tabel: Menunjukkan isi database

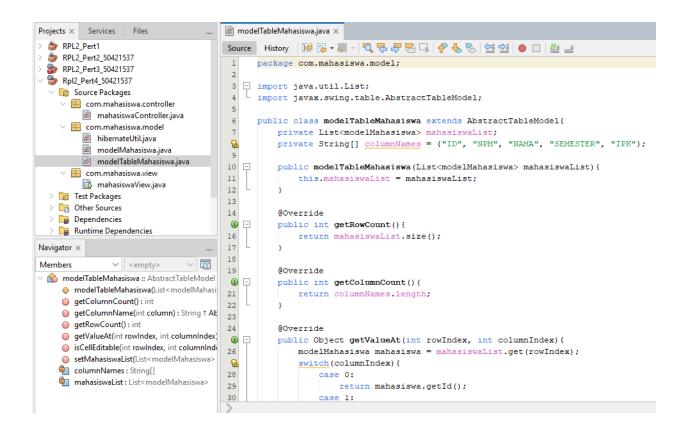
2. Berikut ss dari program

```
Projects × Services Files
                                     RPL2_Pert1
                                     Source History 🔀 🖟 🔻 🔻 🗸 🗸 🖓 🖶 🗔 🔗 😓 🔁 🖆 🔵 🕒 🕌 🚆
 RPL2_Pert2_50421537
                                           package com.mahasiswa.controller;
 RPL2 Pert3 50421537
 Pert4_50421537
                                      3   import com.mahasiswa.model.hibernateUtil;
   Source Packages
                                           import com.mahasiswa.model.modelMahasiswa;
      com.mahasiswa.controller
                                          import java.util.List;
        mahasiswaController.java
                                         import org.hibernate.*;
import org.hibernate.query.Query;
      e com.mahasiswa.model
        hibernateUtil.java
        modelMahasiswa.java
                                           public class mahasiswaController {
        modelTableMahasiswa.java
                                     10 🗇
                                             public void addMhs(modelMahasiswa mhs) {
    com.mahasiswa.view
                                     11
                                                   Transaction trx = null;
        mahasiswaView.java
                                     12
  > 🧰 Test Packages
                                     13
                                                   try (Session session = hibernateUtil.getSessionFactory().openSession())
  > 🛅 Other Sources
                                                      trx = session.beginTransaction();
  > 📴 Dependencies
                                     15
                                                       session.save(mhs);
  > 🕞 Runtime Dependencies
                                                       trx.commit();
Navigator ×
                                     17 =
18 =
                                                   } catch (Exception e) {
                                                      if (trx != null) {
Members
              ✓ | <empty> ✓ | 📆
                                     19
                                                           trx.rollback();
mahasiswaController
                                     20
    mahasiswaController()
                                                       e.printStackTrace();
    addMhs(modelMahasiswa mhs)
                                     22
    deleteMhs(int id)
    getAllMahasiswa(): List< modelMahasiswa</p>
    updateMhs(modelMahasiswa mhs)
                                     25 🖃
                                               public void updateMhs(modelMahasiswa mhs) {
                                     26
                                                   Transaction trx = null;
                                     27
                                     28
                                                   try (Session session = hibernateUtil.getSessionFactory().openSession())
                                     29
                                                       trx = session.beginTransaction();
                                                       session.update(mhs);
```

```
28 -
                try (Session session = hibernateUtil.getSessionFactory().openSession()) {
29
                     trx = session.beginTransaction();
30
                    session.update(mhs);
                    trx.commit();
31
32
   白
                } catch (Exception e) {
33
                    if (trx != null) {
34
                         trx.rollback();
35
                    e.printStackTrace();
37
                }
38
            }
39
40 -
           public void deleteMhs(int id) {
41
                Transaction trx = null;
42
43
                try (Session session = hibernateUtil.getSessionFactory().openSession()) {
44
                    trx = session.beginTransaction();
45
                    modelMahasiswa mhs = session.get(modelMahasiswa.class, id);
46
    白
                    if (mhs != null) {
47
                         session. delete (mhs);
48
                         System.out.println("Berhasil dihapus");
49
                     1
50
                    trx.commit();
   阜
51
                } catch (Exception e) {
52
                    if (trx != null) {
53
                        trx.rollback();
54
 <u>Q.</u>
                     e.printStackTrace();
56
                }
57
59 🖃
         public List<modelMahasiswa> getAllMahasiswa() {
60
            Transaction trx = null;
            List<modelMahasiswa> listMhs = null;
61
62
63
            try (Session session = hibernateUtil.getSessionFactory().openSession()) {
64
                trx = session.beginTransaction();
65
               Query<modelMahasiswa> query = session.createQuery("from modelMahasiswa", modelMahasiswa.class);
66
               listMhs = query.list();
67
               trx.commit();
68
            } catch (Exception e) {
69
               if (trx != null) {
70
                   trx.rollback();
71
<u>Q.</u>
                e.printStackTrace();
73
74
75
            return listMhs;
76
77
78
```



```
49 public void setNpm(String npm) {
       this.npm = npm;
50
51
52
53 =
        public String getNama() {
54
        return nama;
55
56
57 -
       public void setNama(String nama) {
58
       this.nama = nama;
59
        }
60
61 🚍
        public int getSemester() {
        return semester;
62
63
64
65 -
       public void setSemester(int semester) {
66
           this.semester = semester;
67
        }
68
69 =
        public float getIpk() {
70
        return ipk;
71
72
73 -
        public void setIpk(float ipk) {
74
        this.ipk = ipk;
75
76
    }
77
```



```
    modelTableMahasiswa.java 

x

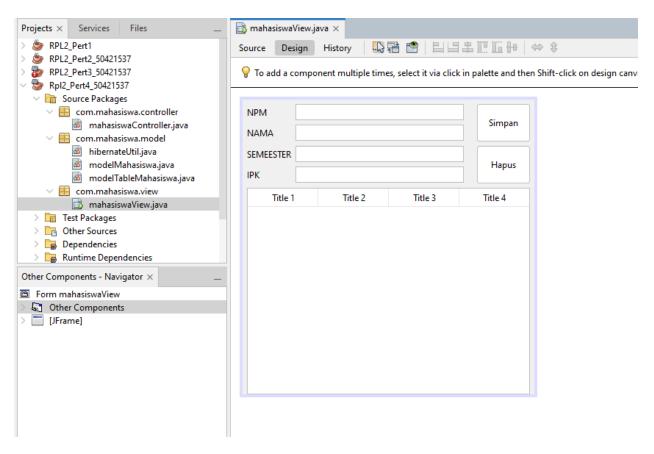
       Source
28
                 case 0:
29
                    return mahasiswa.getId();
30
                 case 1:
31
                    return mahasiswa.getNpm();
32
                 case 2:
33
                    return mahasiswa.getNama();
34
                 case 3:
35
                    return mahasiswa.getSemester();
36
                 case 4:
37
                    return mahasiswa.getIpk();
38
                 default :
39
                    return null;
40
41
          }
42
43
          @Override

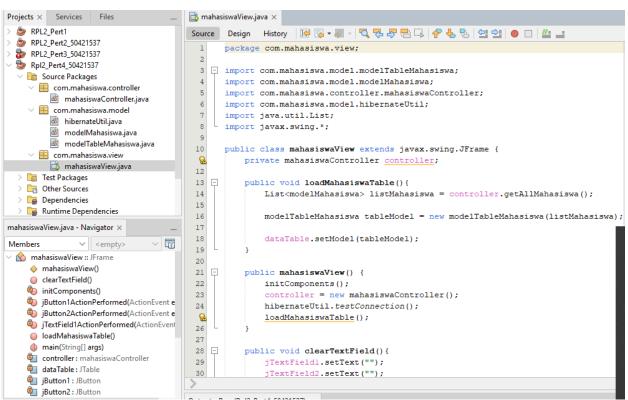
    □

          public String getColumnName(int column) {
45
             return columnNames[column];
46
          }
47
48
          @Override
          public boolean isCellEditable(int rowIndex, int columnIndex) {

    □

50
             return false;
51
52
53
   _
         public void setMahasiswaList(List<modelMahasiswa> mahasiswaList) {
54
             this.mahasiswaList = mahasiswaList;
55
             fireTableDataChanged();
56
57
```





```
mahasiswaView.java ×
Source Design History 🔀 🖟 🔻 🗸 🗸 🖓 🖓 🖓 🖓 😫 😫 🗶 🔲 🖺
                                                                                                                                              ÷
170
171 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
                String npm = jTextField1.getText();
String nama = jTextField2.getText();
int semester = Integer.parseInt(jTextField3.getText());
172
173
174
175
                float ipk = Float.parseFloat(jTextField4.getText());
                \verb|modelMahasiswa| = \verb|new| \verb|modelMahasiswa| (0, \verb|npm|, \verb|nama|, \verb|semester|, \verb|ip|| k);\\
176
177
                {\tt System.out.println(mahasiswa.getIpk());}\\
178
                System.out.println(mahasiswa.getNama());
179
                {\tt System.out.println(mahasiswa.getSemester());}\\
180
                System.out.println(mahasiswa.getNpm());
181
182
                controller.addMhs(mahasiswa);
183
                loadMahasiswaTable();
                clearTextField();
184
185
186
187 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
188
                JTextField idField = new JTextField(5);
189
190
                JPanel panel = new JPanel();
                panel.add(new JLabel("Masukan ID yang ingin dihapus :"));
191
192
                panel.add(idField);
193
194
                int result = JOptionPane.showConfirmDialog(null, panel, "Hapus Mahasiswa", JOptionPane.OK CANCEL OPTION, JOptionPan
195
196 E
                if(result == JOptionPane.OK_OPTION) {
198
                        int id = Integer.parseInt(idField.getText());
```