

ACTIVITY M4

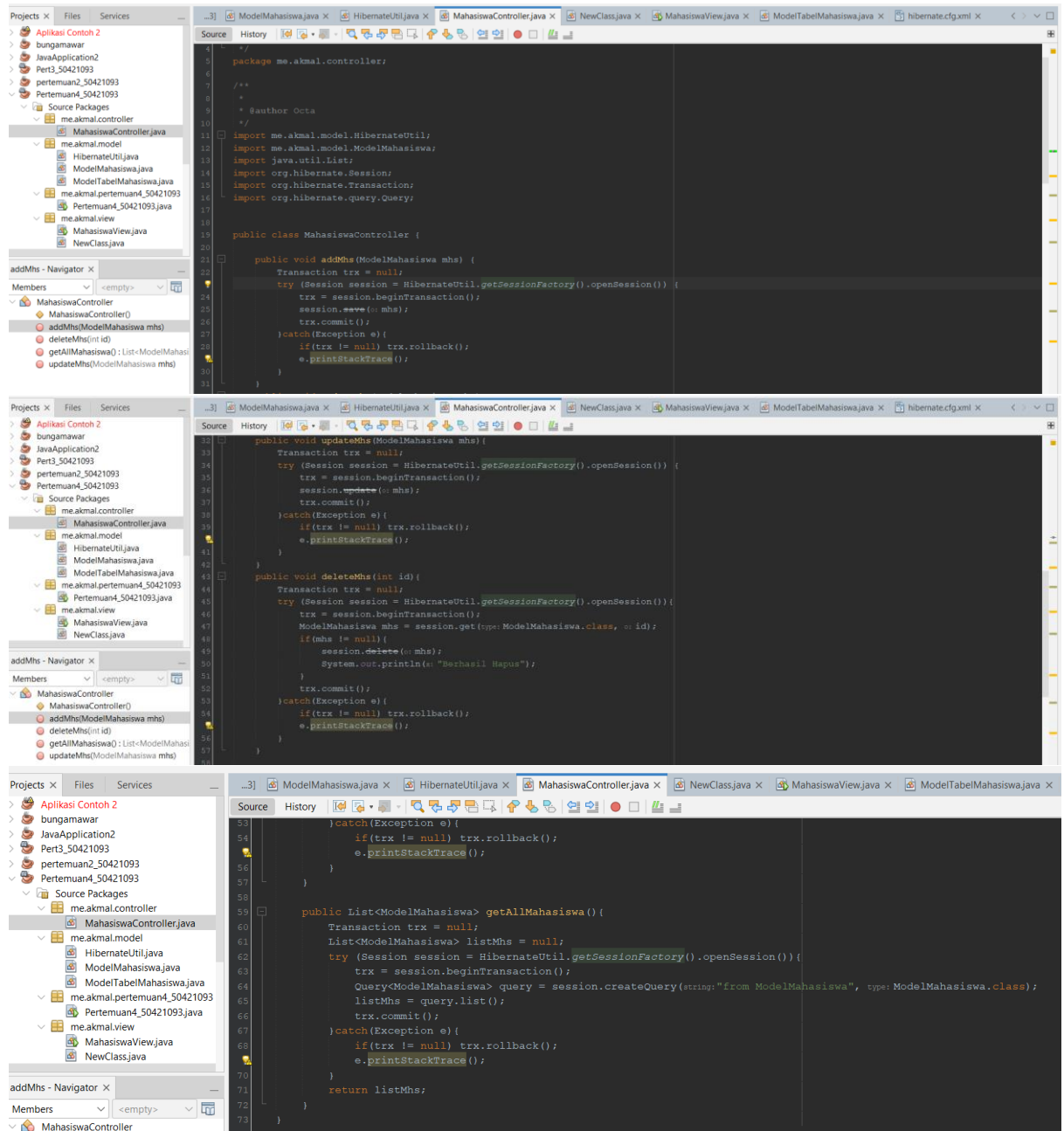
Nama : Akmal Fauzan Octavian

Kelas : 4IA14

NPM : 50421093

Mata Praktikum : Rekayasa Perangkat Lunak

- Kode MahasiswaController.Java



```
package me.akmal.controller;

/**
 * @author Octa
 */
import me.akmal.model.HibernateUtil;
import me.akmal.model.ModelMahasiswa;
import java.util.List;
import org.hibernate.Session;
import org.hibernate.Transaction;
import org.hibernate.query.Query;

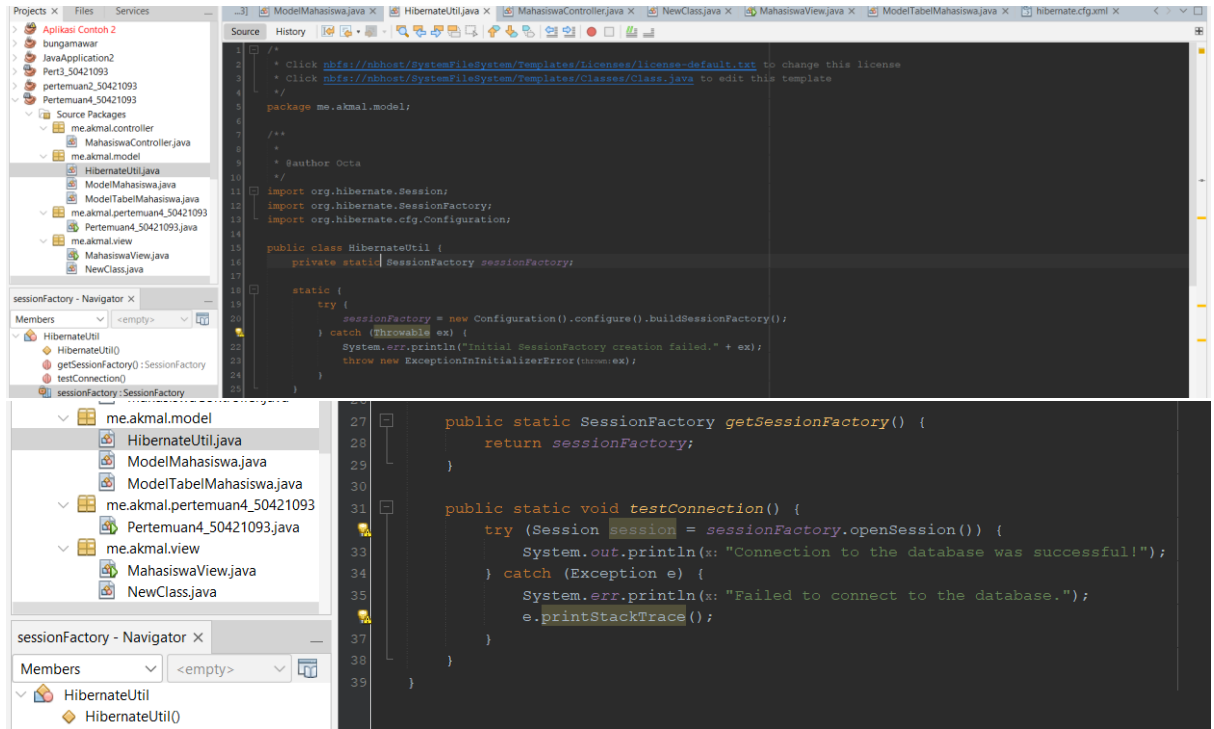
public class MahasiswaController {

    public void addMhs(ModelMahasiswa mhs) {
        Transaction trx = null;
        try (Session session = HibernateUtil.getSessionFactory().openSession()) {
            trx = session.beginTransaction();
            session.save(mhs);
            trx.commit();
        } catch (Exception e) {
            if (trx != null) trx.rollback();
            e.printStackTrace();
        }
    }

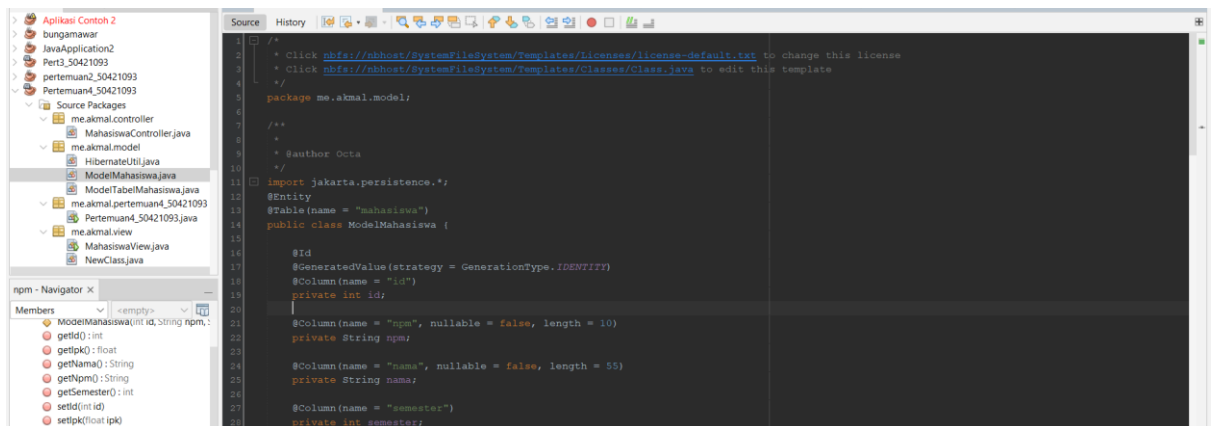
    public void deleteMhs(int id) {
        Transaction trx = null;
        try (Session session = HibernateUtil.getSessionFactory().openSession()) {
            trx = session.beginTransaction();
            ModelMahasiswa mhs = session.get(ModelMahasiswa.class, id);
            if (mhs != null) {
                session.delete(mhs);
                System.out.println("Berhasil Hapus");
            }
            trx.commit();
        } catch (Exception e) {
            if (trx != null) trx.rollback();
            e.printStackTrace();
        }
    }

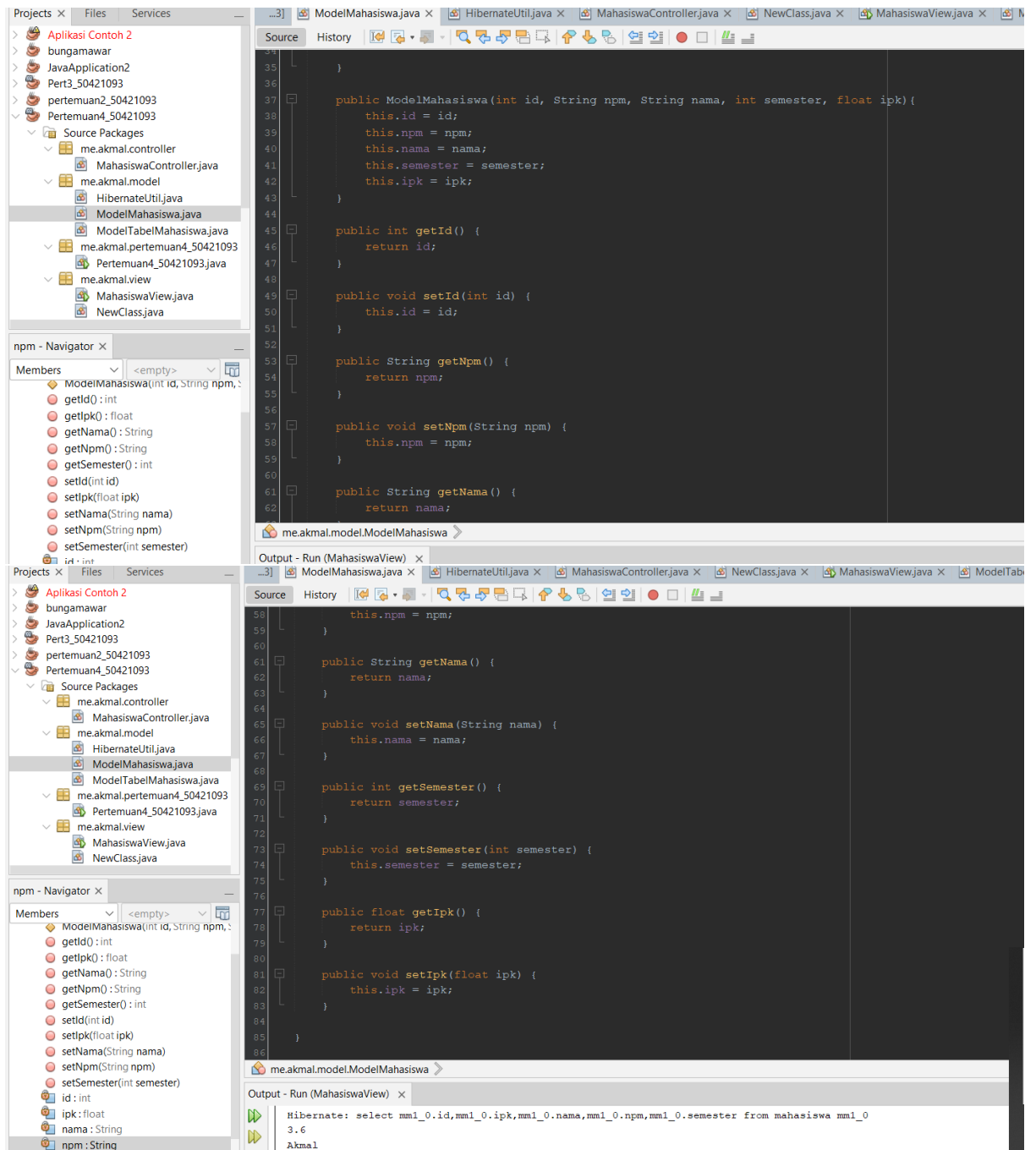
    public List<ModelMahasiswa> getAllMahasiswa() {
        Transaction trx = null;
        List<ModelMahasiswa> listMhs = null;
        try (Session session = HibernateUtil.getSessionFactory().openSession()) {
            trx = session.beginTransaction();
            Query<ModelMahasiswa> query = session.createQuery("from ModelMahasiswa", ModelMahasiswa.class);
            listMhs = query.list();
            trx.commit();
        } catch (Exception e) {
            if (trx != null) trx.rollback();
            e.printStackTrace();
        }
        return listMhs;
    }
}
```

- **HibernateUtil.Java**

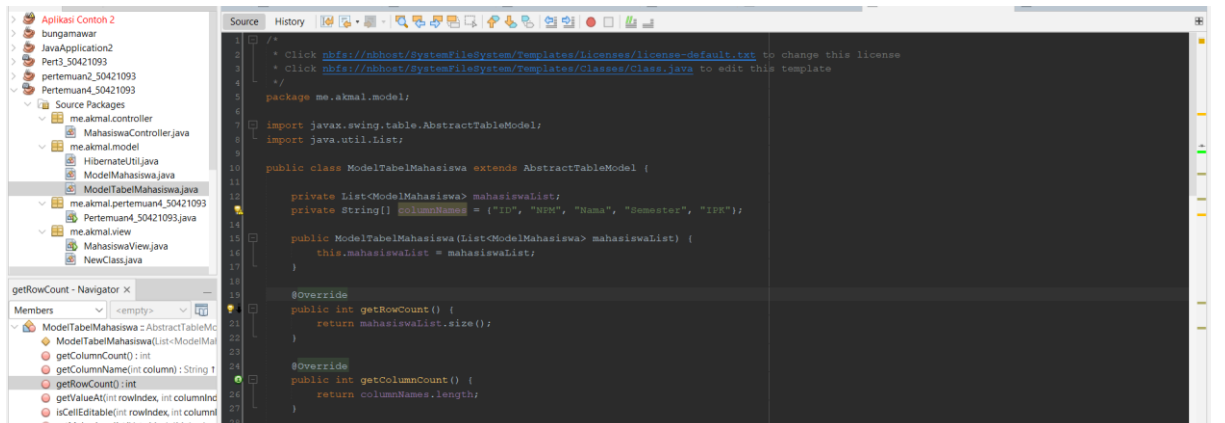


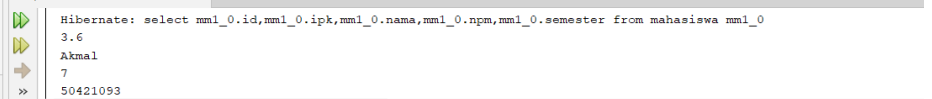
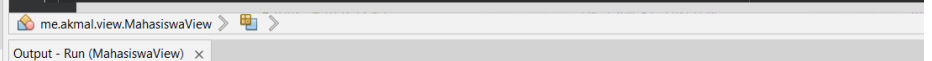
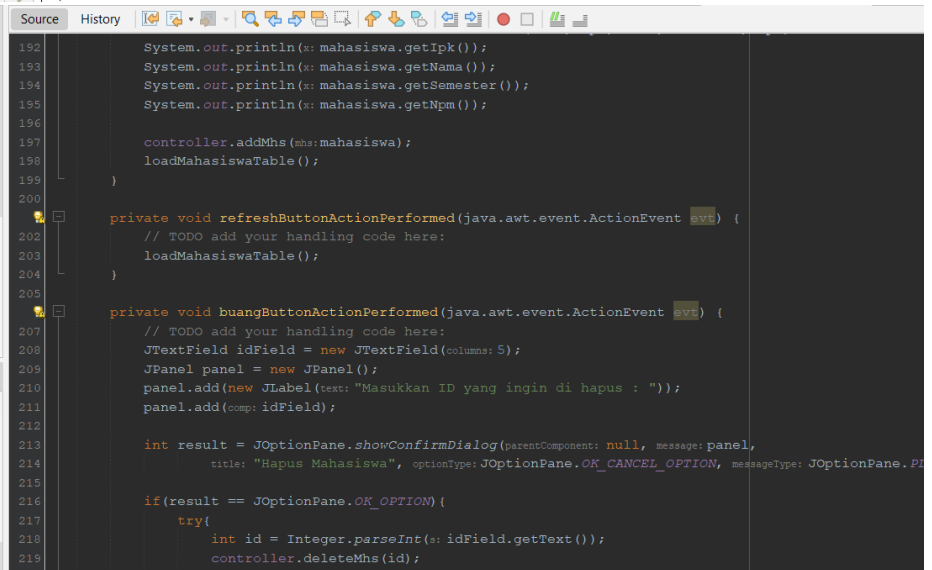
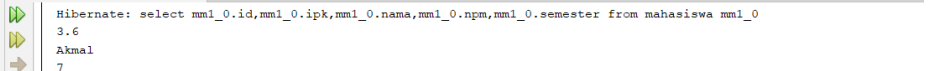
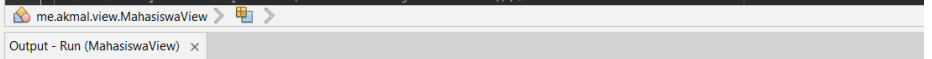
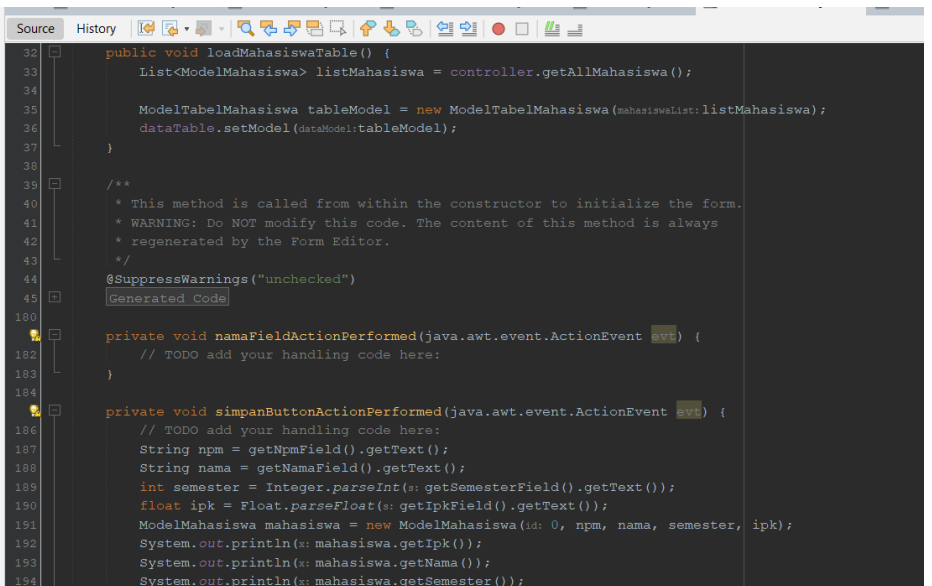
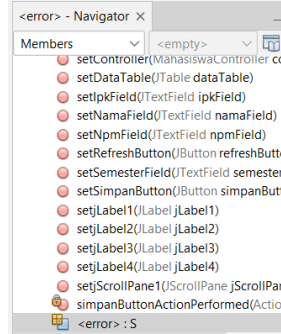
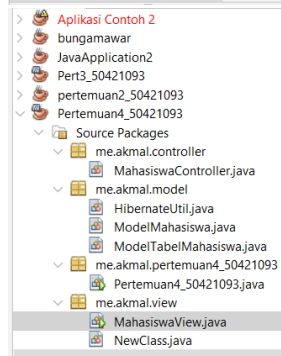
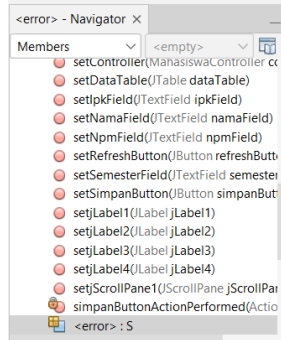
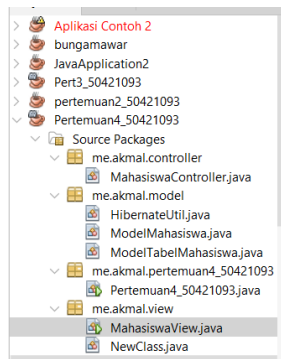
- **ModelMahasiswa.Java**





- **ModelTabelMahasiswa.Java**





Source History

```
219 panel.add(component, BorderLayout.EAST);
220
221 int result = JOptionPane.showConfirmDialog(parentComponent, null, message, panel,
222     title: "hapus Mahasiswa", optionType: JOptionPane.OK_CANCEL_OPTION, messageType: JOptionPane.PLAIN_MESSAGE);
223
224 if(result == JOptionPane.OK_OPTION){
225     try{
226         int id = Integer.parseInt(idField.getText());
227         controller.deleteMhs(id);
228         JOptionPane.showMessageDialog(parentComponent, null, message: "Data berhasil dihapus", title: "Sukses", messageType: JOptionPane.INFORMATION_MESSAGE);
229     }catch (NumberFormatException e){
230         JOptionPane.showMessageDialog(parentComponent, null, message: "ID harus berupa angka", title: "Error", messageType: JOptionPane.ERROR_MESSAGE);
231     }
232 }
233
234 }
235
236 /**
237  * @param args the command line arguments
238  */
239 public static void main(String args[]) {
240     /* Set the Nimbus look and feel */
241     LookAndFeel.setCurrentLookAndFeel(new NimbusLookAndFeel());
242
243     /* Create and display the form */
244     java.awt.EventQueue.invokeLater(new Runnable() {
245         public void run() {
246             new MahasiswaView().setVisible(true);
247         }
248     });
249 }
```

me.akmal.view.MahasiswaView

Output - Run (MahasiswaView)

```
Hibernate: select mmi_0.id,mmi_0.ipk,mmi_0.nama,mmi_0.ngpm,mmi_0.semester from mahasiswa mmi_0
3.6
Akmal
7
50421093
```

projects x Files Services

Aplikasi Contoh 2

- bungamawar
- JavaApplication2
- Pert3_50421093
- pertemuan2_50421093
- Pertemuan4_50421093
- Source Packages
 - me.akmal.controller
 - MahasiswaController.java
 - me.akmal.model
 - HibernateUtil.java
 - ModelMahasiswa.java
 - ModelTabelMahasiswa.java
 - me.akmal.pertemuan4_50421093
 - Pertemuan4_50421093.java
 - me.akmal.view
 - MahasiswaView.java
 - NewClass.java

Members

- setController(MahasiswaController cc)
- setDataTable(Table dataTable)
- setIpField(JTextField ipkField)
- setNamaField(JTextField namaField)
- setNpmField(JTextField npmField)
- setRefreshButton(JButton refreshButt)
- setSemesterField(JTextField semester)
- setSimpanButton(JButton simpanButt)
- setLabel1(JLabel jLabel1)
- setLabel2(JLabel jLabel2)
- setLabel3(JLabel jLabel3)
- setLabel4(JLabel jLabel4)
- setScrollPane1(JScrollPane jScrollPane1)
- simpanButtonActionPerformed(ActionEvent e)

Source History

```
262 // Variables declaration - do not modify
263 private javax.swing.JButton buangButton;
264 private javax.swing.JTable dataTable;
265 private javax.swing.JTextField ipkField;
266 private javax.swing.JLabel jLabel1;
267 private javax.swing.JLabel jLabel2;
268 private javax.swing.JLabel jLabel3;
269 private javax.swing.JLabel jLabel4;
270 private javax.swing.JScrollPane jScrollPane1;
271 private javax.swing.JTextField namaField;
272 private javax.swing.JTextField npmField;
273 private javax.swing.JButton refreshButton;
274 private javax.swing.JTextField semesterField;
275 private javax.swing.JButton simpanButton;
276 // End of variables declaration
277
278 public MahasiswaController getController() {
279     return controller;
280 }
281
282 public void setController(MahasiswaController controller) {
283     this.controller = controller;
284 }
285
286 public JButton getBuangButton() {
287     return buangButton;
288 }
289 }
```

me.akmal.view.MahasiswaView

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Hibernate: select mmi_0.id,mmi_0.ipk,mmi_0.nama,mmi_0.ngpm,mmi_0.semester from mahasiswa mmi_0
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<error> - Navigator X

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- setNpmField(JTextField npmField)
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- setSemesterField(JTextField semester)
- setSimpanButton(JButton simpanButt)
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- setJLabel2(JLabel jLabel2)
- setJLabel3(JLabel jLabel3)
- setJLabel4(JLabel jLabel4)
- setJScrollPane1(JScrollPane jScrollPane1)
- simpanButtonActionPerformed(ActionEvent e)

<error> : S

Source History

```
290 public void setBuangButton(JButton buangButton) {
291     this.buangButton = buangButton;
292 }
293
294 public JTable getDataTable() {
295     return dataTable;
296 }
297
298 public void setDataTable(JTable dataTable) {
299     this.dataTable = dataTable;
300 }
301
302 public JTextField getIpkField() {
303     return ipkField;
304 }
305
306 public void setIpkField(JTextField ipkField) {
307     this.ipkField = ipkField;
308 }
309
310 public JLabel getJLabel1() {
311     return jLabel1;
312 }
313
314 public void setJLabel1(JLabel jLabel1) {
315     this.jLabel1 = jLabel1;
316 }
317
```

me.akmal.view.MahasiswaView

Output - Run (MahasiswaView) X

```
Hibernate: select mm1_0.id,mm1_0.ipk,mm1_0.nama,mm1_0.npm,mm1_0.semester from mahasiswa mm1_0
3.6
Akmal
7
50421093
```

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- setSimpanButton(JButton simpanButt)
- setJLabel1(JLabel jLabel1)
- setJLabel2(JLabel jLabel2)
- setJLabel3(JLabel jLabel3)
- setJLabel4(JLabel jLabel4)
- setJScrollPane1(JScrollPane jScrollPane1)
- simpanButtonActionPerformed(ActionEvent e)

<error> : S

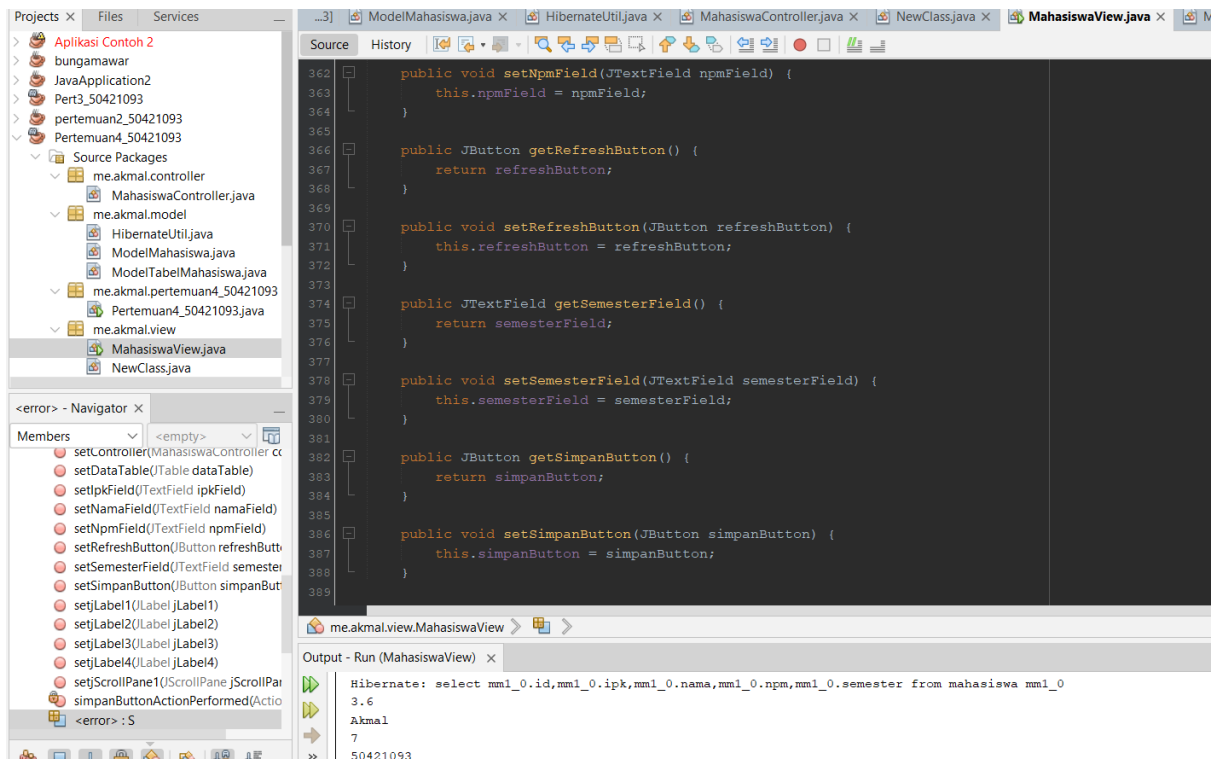
Source History

```
324 }
325
326 public JLabel getJLabel3() {
327     return jLabel3;
328 }
329
330 public void setJLabel3(JLabel jLabel3) {
331     this.jLabel3 = jLabel3;
332 }
333
334 public JLabel getJLabel4() {
335     return jLabel4;
336 }
337
338 public void setJLabel4(JLabel jLabel4) {
339     this.jLabel4 = jLabel4;
340 }
341
342 public JScrollPane getJScrollPane() {
343     return jScrollPane1;
344 }
345
346 public void setJScrollPane(JScrollPane jScrollPane1) {
347     this.jScrollPane1 = jScrollPane1;
348 }
349
350 public JTextField getNamaField() {
351     return namaField;
352 }
```

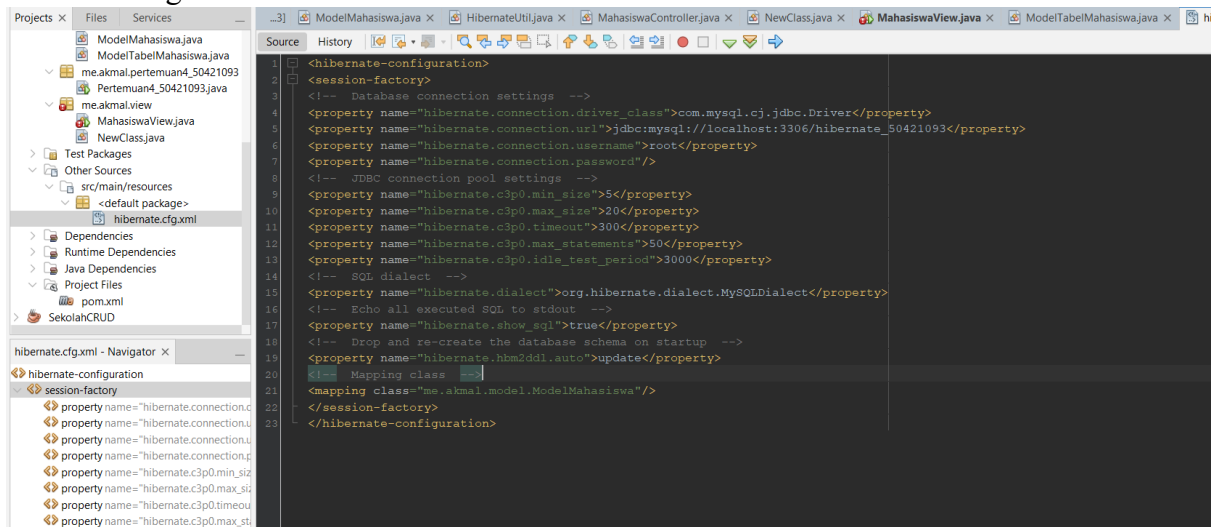
me.akmal.view.MahasiswaView

Output - Run (MahasiswaView) X

```
Hibernate: select mm1_0.id,mm1_0.ipk,mm1_0.nama,mm1_0.npm,mm1_0.semester from mahasiswa mm1_0
3.6
Akmal
```

• Hibernate.cfg.xml



• Pom.xml

