**Laporan Praktikum**

**Bahasa Pemrograman 1**

**Dosen pengampu : (*Dede Husen, M.Kom.*)**

# Modul 7 & 8



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**Modul 7**

**PreTest**

1. Tulis dan jelaskan dengan singkat komponen dari JDBC API!

JDBC API terdiri dari beberapa komponen utama untuk mengelola koneksi dan operasi database. DriverManager mengelola driver database dan membuat Connection untuk menghubungkan aplikasi ke database. Statement digunakan untuk menjalankan perintah SQL statis, sedangkan PreparedStatement memungkinkan eksekusi query dengan parameter, lebih aman terhadap SQL Injection. Hasil query disimpan dalam ResultSet, yang memungkinkan pembacaan data baris demi baris. SQLException menangkap kesalahan yang terjadi selama operasi database. Alternatifnya, DataSource menyediakan manajemen koneksi dengan pooling untuk aplikasi skala besar, membuat proses lebih efisien. Komponen-komponen ini saling terhubung untuk memudahkan pengelolaan data di aplikasi Java.

**Praktikum**



/\*

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\*/

package bp1\_m6\_rizal;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

/\*\*

\*

\* @author Muhammad Rizal Nur F

\*/

public class BP1\_M6\_P1\_Rizal extends javax.swing.JFrame {

private Object JTable1;

Statement st;

ResultSet rs;

koneksi koneksi;

/\*\*

\* Creates new form BP1\_M6\_P1\_Rizal

\*/

public BP1\_M6\_P1\_Rizal() {

koneksi = new koneksi();

initComponents();

load\_data();

}

private void load\_data(){

Object header []={"NIM","NAMA","JENIS KELAMIN","PRODI","ALAMAT"};

DefaultTableModel data = new DefaultTableModel(null,header);

jTable1.setModel(data);

String sql="SELECT nim, nama, jk, prodi, alamat FROM tabel\_mhs";

try{

st = koneksi.con.createStatement();

rs = st.executeQuery(sql);

while (rs.next()) {

String k1 = rs.getString("nim");

String k2 = rs.getString("nama");

String k3 = rs.getString("jk");

String k4 = rs.getString("prodi");

String k5 = rs.getString("alamat");

String k[] = {k1, k2, k3, k4, k5};

data.addRow(k);

}

}

catch(Exception e){

JOptionPane.showMessageDialog(null, e);

}

}

public void input\_data() {

try {

String jk; // Gender or some similar attribute (assuming)

if (jRadioButton1.isSelected()) {

jk = jRadioButton1.getText(); // Fix the reference to jRadioButton1

} else {

jk = jRadioButton2.getText(); // Fix the reference to jRadioButton2

}

// Prepare the SQL query

String sql = "INSERT INTO mhs (column1, column2, column3, column4, column5) VALUES ('"

+ jTextField1.getText() + "', '"

+ jTextField2.getText() + "', '"

+ jk + "', '"

+ jComboBox1.getSelectedItem().toString() + "', '"

+ jTextArea1.getText() + "')";

// Execute the SQL statement

st.execute(sql);

JOptionPane.showMessageDialog(null, "Data Mahasiswa Berhasil Di Input");

}

catch (SQLException e) {

JOptionPane.showMessageDialog(null, "Error: " + e.getMessage());

}

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jComboBox1 = new javax.swing.JComboBox();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jScrollPane2 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("DATA MAHASISWA");

jLabel2.setText("FORM INPUT DATA ");

jLabel3.setText("DATA MAHASISWA");

jLabel4.setText("NIM");

jLabel5.setText("NAMA");

jLabel6.setText("JENIS KELAMIN");

jLabel7.setText("PRODI");

jLabel8.setText("ALAMAT");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField1ActionPerformed(evt);

}

});

jRadioButton1.setText("L");

jRadioButton2.setText("p");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "TI", "SI", "DKV", "MI", "TS" }));

jTextArea1.setColumns(20);

jTextArea1.setRows(5);

jScrollPane1.setViewportView(jTextArea1);

jButton1.setText("SIMPAN");

jButton2.setText("EDIT");

jButton3.setText("HAPUS");

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null},

{null, null, null, null},

{null, null, null, null},

{null, null, null, null}

},

new String [] {

"Title 1", "Title 2", "Title 3", "Title 4"

}

));

jScrollPane2.setViewportView(jTable1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jLabel5)

.addComponent(jLabel6)

.addComponent(jLabel7)

.addComponent(jLabel8))

.addGap(38, 38, 38)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jTextField1)

.addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT\_SIZE, 210, Short.MAX\_VALUE))

.addComponent(jLabel2)

.addGroup(layout.createSequentialGroup()

.addComponent(jRadioButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jRadioButton2))

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton2)

.addGap(18, 18, 18)

.addComponent(jButton3)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel3)

.addGap(188, 188, 188))

.addGroup(layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jLabel1)

.addGap(422, 422, 422))))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel1)

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(jLabel3))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel6)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2))

.addGap(67, 67, 67)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel7)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(25, 25, 25)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel8)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1)

.addComponent(jButton2)

.addComponent(jButton3)))

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(41, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new BP1\_M6\_P1\_Rizal().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JComboBox jComboBox1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JTable jTable1;

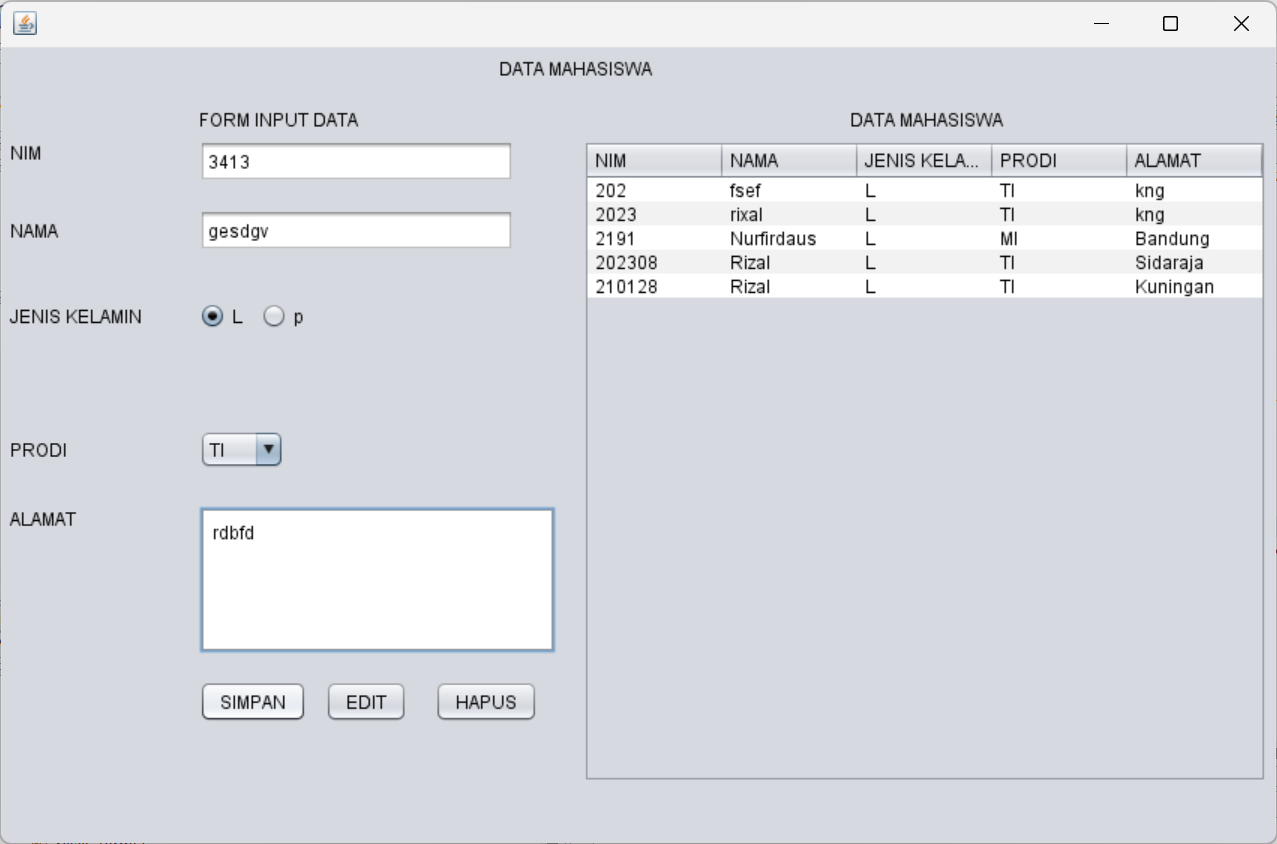
private javax.swing.JTextArea jTextArea1;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

// End of variables declaration

}



**PostTest**

1. lengkapi program, jika tombol simpan di klik akan menampilkan YesNoQuestion untuk penyimpanan data

2. jika tombol simpan di klik, Form Input Data akan kembali kosong seperti kondisi awal

3. jika tombol simpan diklik, data yang di input akan langsung tampil pada JTable.

/\*

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\* and open the template in the editor.

\*/

package bp1\_m6\_rizal;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

/\*\*

\*

\* @author Muhammad Rizal Nur F

\*/

public class BP1\_M6\_P1\_Rizal extends javax.swing.JFrame {

private Object JTable1;

Statement st;

ResultSet rs;

koneksi koneksi;

/\*\*

\* Creates new form BP1\_M6\_P1\_Rizal

\*/

public BP1\_M6\_P1\_Rizal() {

koneksi = new koneksi();

initComponents();

load\_data();

}

private void load\_data() {

Object header[] = {"NIM", "NAMA", "JENIS KELAMIN", "PRODI", "ALAMAT"};

DefaultTableModel data = new DefaultTableModel(null, header);

jTable1.setModel(data);

String sql = "SELECT nim, nama, jk, prodi, alamat FROM tabel\_mhs";

try {

st = koneksi.con.createStatement();

rs = st.executeQuery(sql);

while (rs.next()) {

String k1 = rs.getString("nim");

String k2 = rs.getString("nama");

String k3 = rs.getString("jk");

String k4 = rs.getString("prodi");

String k5 = rs.getString("alamat");

String k[] = {k1, k2, k3, k4, k5};

data.addRow(k);

}

} catch (Exception e) {

JOptionPane.showMessageDialog(null, e);

}

}

public void input\_data() {

try {

String jk = jRadioButton1.isSelected() ? jRadioButton1.getText() : jRadioButton2.getText();

int confirm = JOptionPane.showConfirmDialog(null, "Apakah Anda yakin ingin menyimpan data?", "Konfirmasi", JOptionPane.YES\_NO\_OPTION);

if (confirm == JOptionPane.YES\_OPTION) {

String sql = "INSERT INTO tabel\_mhs (nim, nama, jk, prodi, alamat) VALUES ('"

+ jTextField1.getText() + "', '"

+ jTextField2.getText() + "', '"

+ jk + "', '"

+ jComboBox1.getSelectedItem().toString() + "', '"

+ jTextArea1.getText() + "')";

st = koneksi.con.createStatement();

st.execute(sql);

JOptionPane.showMessageDialog(null, "Data Mahasiswa Berhasil Disimpan");

load\_data();

reset\_form();

}

} catch (SQLException e) {

JOptionPane.showMessageDialog(null, "Error: " + e.getMessage());

}

}

private void reset\_form() {

jTextField1.setText("");

jTextField2.setText("");

jRadioButton1.setSelected(false);

jRadioButton2.setSelected(false);

jComboBox1.setSelectedIndex(0);

jTextArea1.setText("");

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jComboBox1 = new javax.swing.JComboBox();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

ButtonSimpan = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jScrollPane2 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("DATA MAHASISWA");

jLabel2.setText("FORM INPUT DATA ");

jLabel3.setText("DATA MAHASISWA");

jLabel4.setText("NIM");

jLabel5.setText("NAMA");

jLabel6.setText("JENIS KELAMIN");

jLabel7.setText("PRODI");

jLabel8.setText("ALAMAT");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField1ActionPerformed(evt);

}

});

jRadioButton1.setText("L");

jRadioButton2.setText("p");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "TI", "SI", "DKV", "MI", "TS" }));

jTextArea1.setColumns(20);

jTextArea1.setRows(5);

jScrollPane1.setViewportView(jTextArea1);

ButtonSimpan.setText("SIMPAN");

ButtonSimpan.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

ButtonSimpanActionPerformed(evt);

}

});

jButton2.setText("EDIT");

jButton3.setText("HAPUS");

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null},

{null, null, null, null},

{null, null, null, null},

{null, null, null, null}

},

new String [] {

"Title 1", "Title 2", "Title 3", "Title 4"

}

));

jScrollPane2.setViewportView(jTable1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jLabel5)

.addComponent(jLabel6)

.addComponent(jLabel7)

.addComponent(jLabel8))

.addGap(38, 38, 38)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jTextField1)

.addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT\_SIZE, 210, Short.MAX\_VALUE))

.addComponent(jLabel2)

.addGroup(layout.createSequentialGroup()

.addComponent(jRadioButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jRadioButton2))

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addComponent(ButtonSimpan)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton2)

.addGap(18, 18, 18)

.addComponent(jButton3)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel3)

.addGap(188, 188, 188))

.addGroup(layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jLabel1)

.addGap(422, 422, 422))))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel1)

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(jLabel3))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel6)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2))

.addGap(67, 67, 67)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel7)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(25, 25, 25)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel8)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(ButtonSimpan)

.addComponent(jButton2)

.addComponent(jButton3)))

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(41, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void ButtonSimpanActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

input\_data();

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new BP1\_M6\_P1\_Rizal().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton ButtonSimpan;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JComboBox jComboBox1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JTable jTable1;

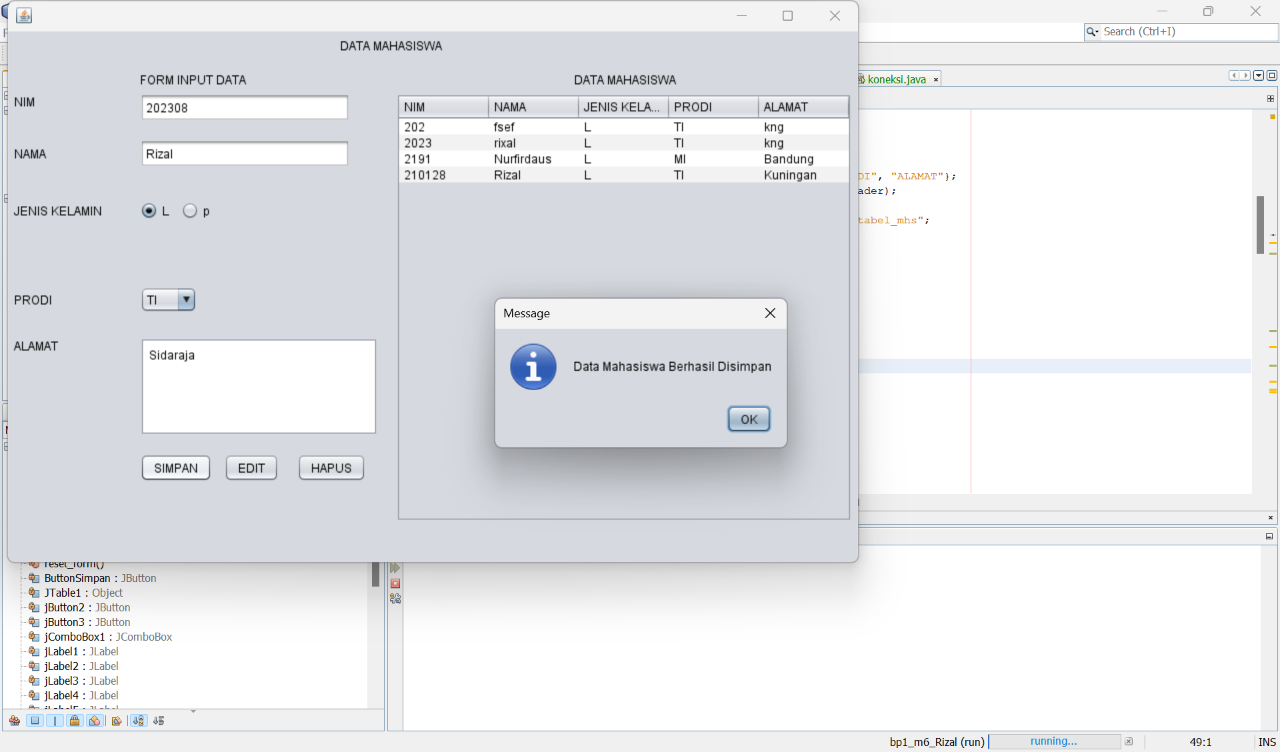
private javax.swing.JTextArea jTextArea1;

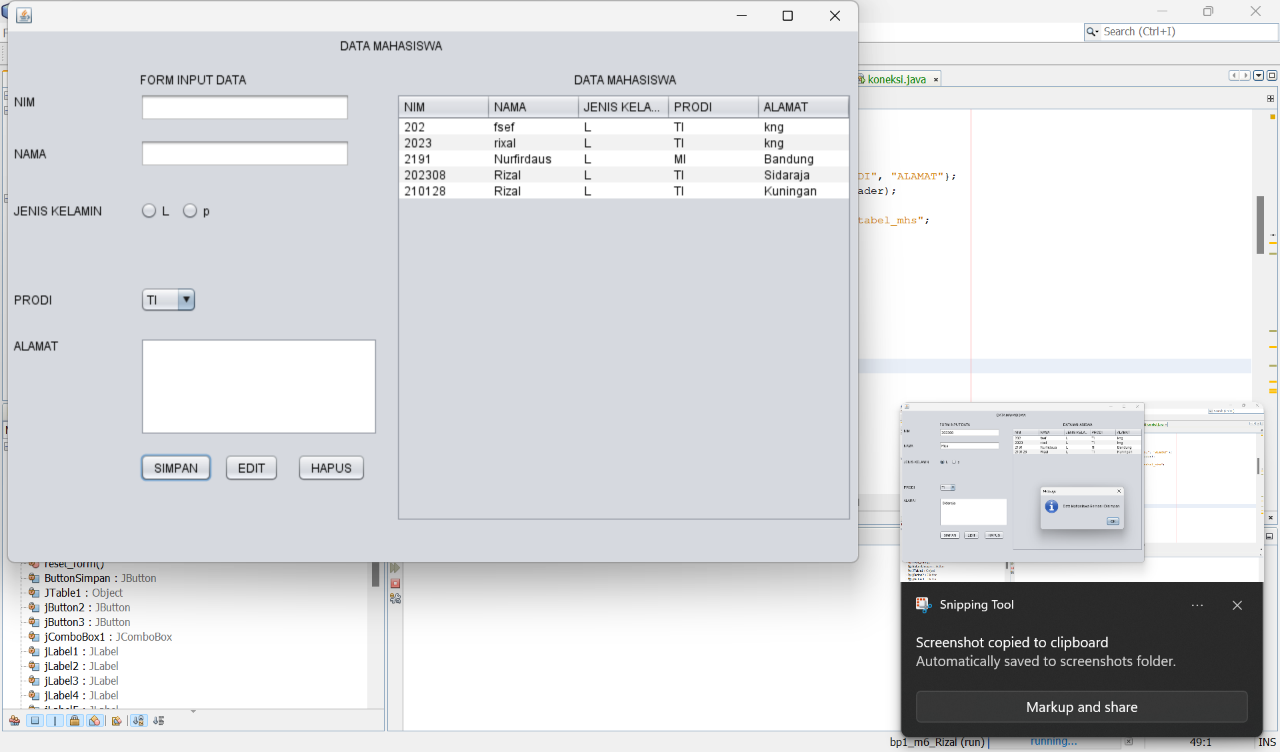
private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

// End of variables declaration

}





**Tugas**

1. Lengkapi program, jika tombol simpan di klik tetapi ada data yang belum terisi maka akan menampilkan pesan “Data Harus Diisi !”
2. Lengkapi Button Edit dan Hapus

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package bp1\_m6\_rizal;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

/\*\*

\*

\* @author Muhammad Rizal Nur F

\*/

public class BP1\_M6\_P1\_Rizal extends javax.swing.JFrame {

private Object JTable1;

Statement st;

ResultSet rs;

koneksi koneksi;

/\*\*

\* Creates new form BP1\_M6\_P1\_Rizal

\*/

public BP1\_M6\_P1\_Rizal() {

koneksi = new koneksi();

initComponents();

load\_data();

}

private void load\_data() {

Object header[] = {"NIM", "NAMA", "JENIS KELAMIN", "PRODI", "ALAMAT"};

DefaultTableModel data = new DefaultTableModel(null, header);

jTable1.setModel(data);

String sql = "SELECT nim, nama, jk, prodi, alamat FROM tabel\_mhs";

try {

st = koneksi.con.createStatement();

rs = st.executeQuery(sql);

while (rs.next()) {

String k1 = rs.getString("nim");

String k2 = rs.getString("nama");

String k3 = rs.getString("jk");

String k4 = rs.getString("prodi");

String k5 = rs.getString("alamat");

String k[] = {k1, k2, k3, k4, k5};

data.addRow(k);

}

} catch (Exception e) {

JOptionPane.showMessageDialog(null, e);

}

}

public void input\_data() {

try {

// Validasi input: Pastikan semua data terisi

if (jTextField1.getText().isEmpty() ||

jTextField2.getText().isEmpty() ||

(!jRadioButton1.isSelected() && !jRadioButton2.isSelected()) ||

jTextArea1.getText().isEmpty()) {

JOptionPane.showMessageDialog(null, "Data Harus Diisi!", "Peringatan", JOptionPane.WARNING\_MESSAGE);

return;

}

// Ambil nilai jenis kelamin

String jk = jRadioButton1.isSelected() ? jRadioButton1.getText() : jRadioButton2.getText();

// Konfirmasi penyimpanan data

int confirm = JOptionPane.showConfirmDialog(null, "Apakah Anda yakin ingin menyimpan data?", "Konfirmasi", JOptionPane.YES\_NO\_OPTION);

if (confirm == JOptionPane.YES\_OPTION) {

String sql = "INSERT INTO tabel\_mhs (nim, nama, jk, prodi, alamat) VALUES ('"

+ jTextField1.getText() + "', '"

+ jTextField2.getText() + "', '"

+ jk + "', '"

+ jComboBox1.getSelectedItem().toString() + "', '"

+ jTextArea1.getText() + "')";

st = koneksi.con.createStatement();

st.execute(sql);

JOptionPane.showMessageDialog(null, "Data Mahasiswa Berhasil Disimpan");

// Muat ulang data di tabel dan reset form

load\_data();

reset\_form();

}

} catch (SQLException e) {

JOptionPane.showMessageDialog(null, "Error: " + e.getMessage());

}

}

private void reset\_form() {

jTextField1.setText("");

jTextField2.setText("");

jRadioButton1.setSelected(false);

jRadioButton2.setSelected(false);

jComboBox1.setSelectedIndex(0);

jTextArea1.setText("");

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jComboBox1 = new javax.swing.JComboBox();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

ButtonSimpan = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jScrollPane2 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("DATA MAHASISWA");

jLabel2.setText("FORM INPUT DATA ");

jLabel3.setText("DATA MAHASISWA");

jLabel4.setText("NIM");

jLabel5.setText("NAMA");

jLabel6.setText("JENIS KELAMIN");

jLabel7.setText("PRODI");

jLabel8.setText("ALAMAT");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField1ActionPerformed(evt);

}

});

jRadioButton1.setText("L");

jRadioButton2.setText("p");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "TI", "SI", "DKV", "MI", "TS" }));

jTextArea1.setColumns(20);

jTextArea1.setRows(5);

jScrollPane1.setViewportView(jTextArea1);

ButtonSimpan.setText("SIMPAN");

ButtonSimpan.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

ButtonSimpanActionPerformed(evt);

}

});

jButton2.setText("EDIT");

jButton3.setText("HAPUS");

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null},

{null, null, null, null},

{null, null, null, null},

{null, null, null, null}

},

new String [] {

"Title 1", "Title 2", "Title 3", "Title 4"

}

));

jScrollPane2.setViewportView(jTable1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jLabel5)

.addComponent(jLabel6)

.addComponent(jLabel7)

.addComponent(jLabel8))

.addGap(38, 38, 38)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jTextField1)

.addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT\_SIZE, 210, Short.MAX\_VALUE))

.addComponent(jLabel2)

.addGroup(layout.createSequentialGroup()

.addComponent(jRadioButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jRadioButton2))

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addComponent(ButtonSimpan)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton2)

.addGap(18, 18, 18)

.addComponent(jButton3)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel3)

.addGap(188, 188, 188))

.addGroup(layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jLabel1)

.addGap(422, 422, 422))))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel1)

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(jLabel3))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel6)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2))

.addGap(67, 67, 67)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel7)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(25, 25, 25)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel8)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(ButtonSimpan)

.addComponent(jButton2)

.addComponent(jButton3)))

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(41, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void ButtonSimpanActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

input\_data();

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new BP1\_M6\_P1\_Rizal().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton ButtonSimpan;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JComboBox jComboBox1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

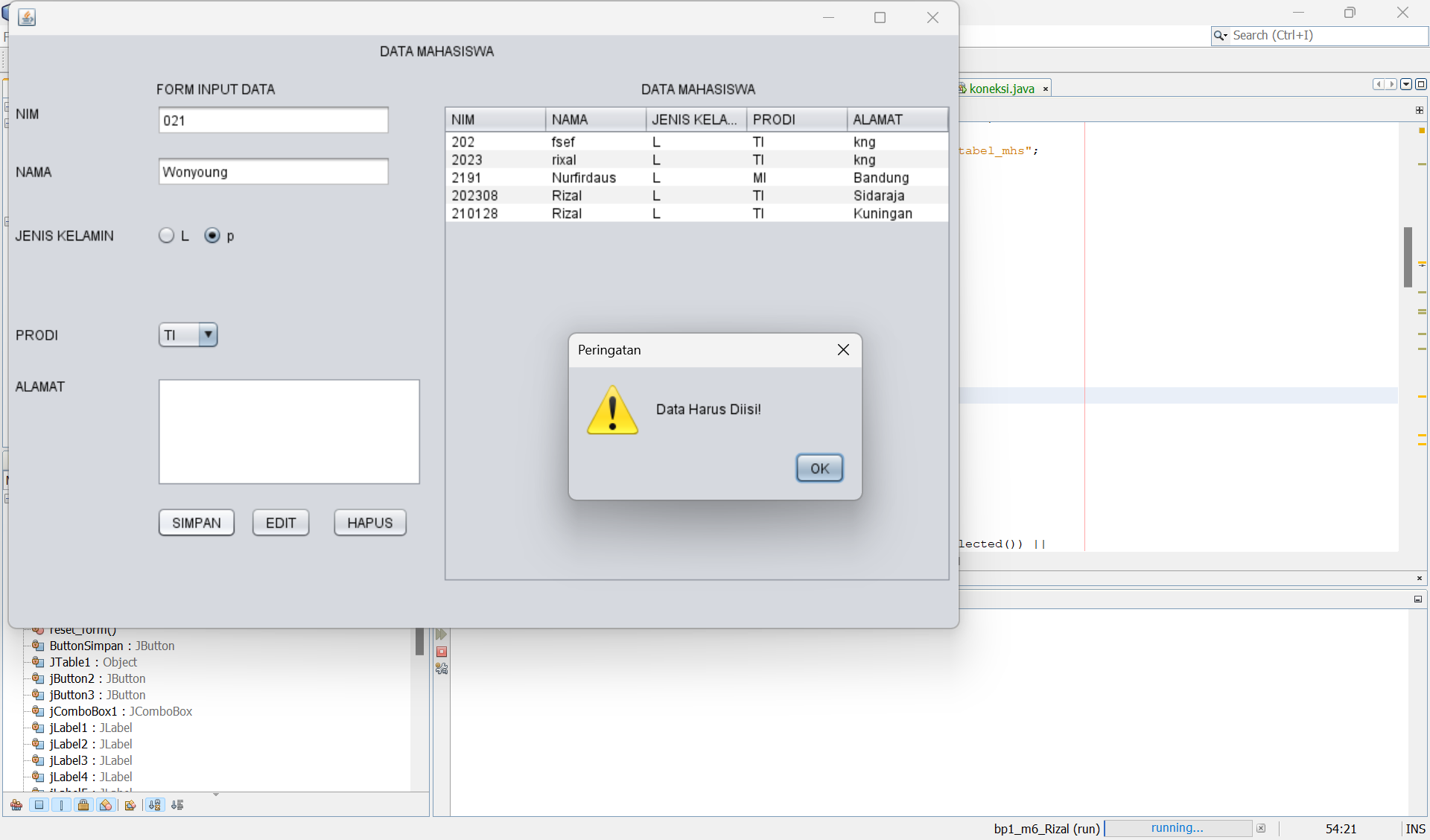
private javax.swing.JTable jTable1;

private javax.swing.JTextArea jTextArea1;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

// End of variables declaration

}

**Modul 8**

**PreTest**

**Praktikum**



/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package bp1\_m6\_rizal;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

/\*\*

\*

\* @author Muhammad Rizal Nur F

\*/

public class BP1\_M6\_P1\_Rizal extends javax.swing.JFrame {

private Object JTable1;

Statement st;

ResultSet rs;

koneksi koneksi;

/\*\*

\* Creates new form BP1\_M6\_P1\_Rizal

\*/

public BP1\_M6\_P1\_Rizal() {

koneksi = new koneksi();

initComponents();

load\_data();

}

private void load\_data() {

Object header[] = {"NIM", "NAMA", "JENIS KELAMIN", "PRODI", "ALAMAT"};

DefaultTableModel data = new DefaultTableModel(null, header);

jTable1.setModel(data);

String sql = "SELECT nim, nama, jk, prodi, alamat FROM tabel\_mhs";

try {

st = koneksi.con.createStatement();

rs = st.executeQuery(sql);

while (rs.next()) {

String k1 = rs.getString("nim");

String k2 = rs.getString("nama");

String k3 = rs.getString("jk");

String k4 = rs.getString("prodi");

String k5 = rs.getString("alamat");

String k[] = {k1, k2, k3, k4, k5};

data.addRow(k);

}

} catch (Exception e) {

JOptionPane.showMessageDialog(null, e);

}

}

public void input\_data() {

try {

// Validasi input: Pastikan semua data terisi

if (jTextField1.getText().isEmpty() ||

jTextField2.getText().isEmpty() ||

(!jRadioButton1.isSelected() && !jRadioButton2.isSelected()) ||

jTextArea1.getText().isEmpty()) {

JOptionPane.showMessageDialog(null, "Data Harus Diisi!", "Peringatan", JOptionPane.WARNING\_MESSAGE);

return;

}

// Ambil nilai jenis kelamin

String jk = jRadioButton1.isSelected() ? jRadioButton1.getText() : jRadioButton2.getText();

// Konfirmasi penyimpanan data

int confirm = JOptionPane.showConfirmDialog(null, "Apakah Anda yakin ingin menyimpan data?", "Konfirmasi", JOptionPane.YES\_NO\_OPTION);

if (confirm == JOptionPane.YES\_OPTION) {

String sql = "INSERT INTO tabel\_mhs (nim, nama, jk, prodi, alamat) VALUES ('"

+ jTextField1.getText() + "', '"

+ jTextField2.getText() + "', '"

+ jk + "', '"

+ jComboBox1.getSelectedItem().toString() + "', '"

+ jTextArea1.getText() + "')";

st = koneksi.con.createStatement();

st.execute(sql);

JOptionPane.showMessageDialog(null, "Data Mahasiswa Berhasil Disimpan");

// Muat ulang data di tabel dan reset form

load\_data();

reset\_form();

}

} catch (SQLException e) {

JOptionPane.showMessageDialog(null, "Error: " + e.getMessage());

}

}

private void reset\_form() {

jTextField1.setText("");

jTextField2.setText("");

jRadioButton1.setSelected(false);

jRadioButton2.setSelected(false);

jComboBox1.setSelectedIndex(0);

jTextArea1.setText("");

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jComboBox1 = new javax.swing.JComboBox();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

ButtonSimpan = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jScrollPane2 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("DATA MAHASISWA");

jLabel2.setText("FORM INPUT DATA ");

jLabel3.setText("DATA MAHASISWA");

jLabel4.setText("NIM");

jLabel5.setText("NAMA");

jLabel6.setText("JENIS KELAMIN");

jLabel7.setText("PRODI");

jLabel8.setText("ALAMAT");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField1ActionPerformed(evt);

}

});

jRadioButton1.setText("L");

jRadioButton2.setText("p");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "TI", "SI", "DKV", "MI", "TS" }));

jTextArea1.setColumns(20);

jTextArea1.setRows(5);

jScrollPane1.setViewportView(jTextArea1);

ButtonSimpan.setText("SIMPAN");

ButtonSimpan.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

ButtonSimpanActionPerformed(evt);

}

});

jButton2.setText("EDIT");

jButton2.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

jButton2MouseClicked(evt);

}

});

jButton3.setText("HAPUS");

jButton3.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

jButton3MouseClicked(evt);

}

});

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null},

{null, null, null, null},

{null, null, null, null},

{null, null, null, null}

},

new String [] {

"Title 1", "Title 2", "Title 3", "Title 4"

}

));

jScrollPane2.setViewportView(jTable1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jLabel5)

.addComponent(jLabel6)

.addComponent(jLabel7)

.addComponent(jLabel8))

.addGap(38, 38, 38)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jTextField1)

.addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT\_SIZE, 210, Short.MAX\_VALUE))

.addComponent(jLabel2)

.addGroup(layout.createSequentialGroup()

.addComponent(jRadioButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jRadioButton2))

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addComponent(ButtonSimpan)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton2)

.addGap(18, 18, 18)

.addComponent(jButton3)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel3)

.addGap(188, 188, 188))

.addGroup(layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jLabel1)

.addGap(422, 422, 422))))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel1)

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(jLabel3))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel6)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2))

.addGap(67, 67, 67)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel7)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(25, 25, 25)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel8)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(ButtonSimpan)

.addComponent(jButton2)

.addComponent(jButton3)))

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(41, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void ButtonSimpanActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

input\_data();

}

private void jButton2MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

// Button Edit

try()

{

String jk="";

if(jRadioButton1.isSelected())

{jk=jRadioButton1.getText();}

else

{jk=jRadioButton2.getText();}

String sql\_edit = "UPDATE mhs SET nim = '"+jTextField1.getText()

+"','"+jTextField2.getText()

+"','"+jk

+"','"+jComboBox1.getText()

+"','"+jTextArea1.getText()

+"'WHERE nim='"+jTextField1.getText()

+"'";

st.executeUpdate(sql\_edit);

JOptionPane.showMessageDialog(null, "Data Mahasiswa Berhenti Di Update");

}

catch (SQLException e)

{

JOptionPane.showMessageDialog(null, e);

}

}

private void jButton3MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

// Button Hapus

try

{

st = koneksi.con.createStatement();

String sql\_delete = "Delete FKOM mhs WHERE nim='"+jTextField1.getText()+"'";

st.executeUpdate(sql\_delete);

JOptionPane.showMessageDialog(null. e);

}

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1\_M6\_P1\_Rizal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new BP1\_M6\_P1\_Rizal().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton ButtonSimpan;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JComboBox jComboBox1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JTable jTable1;

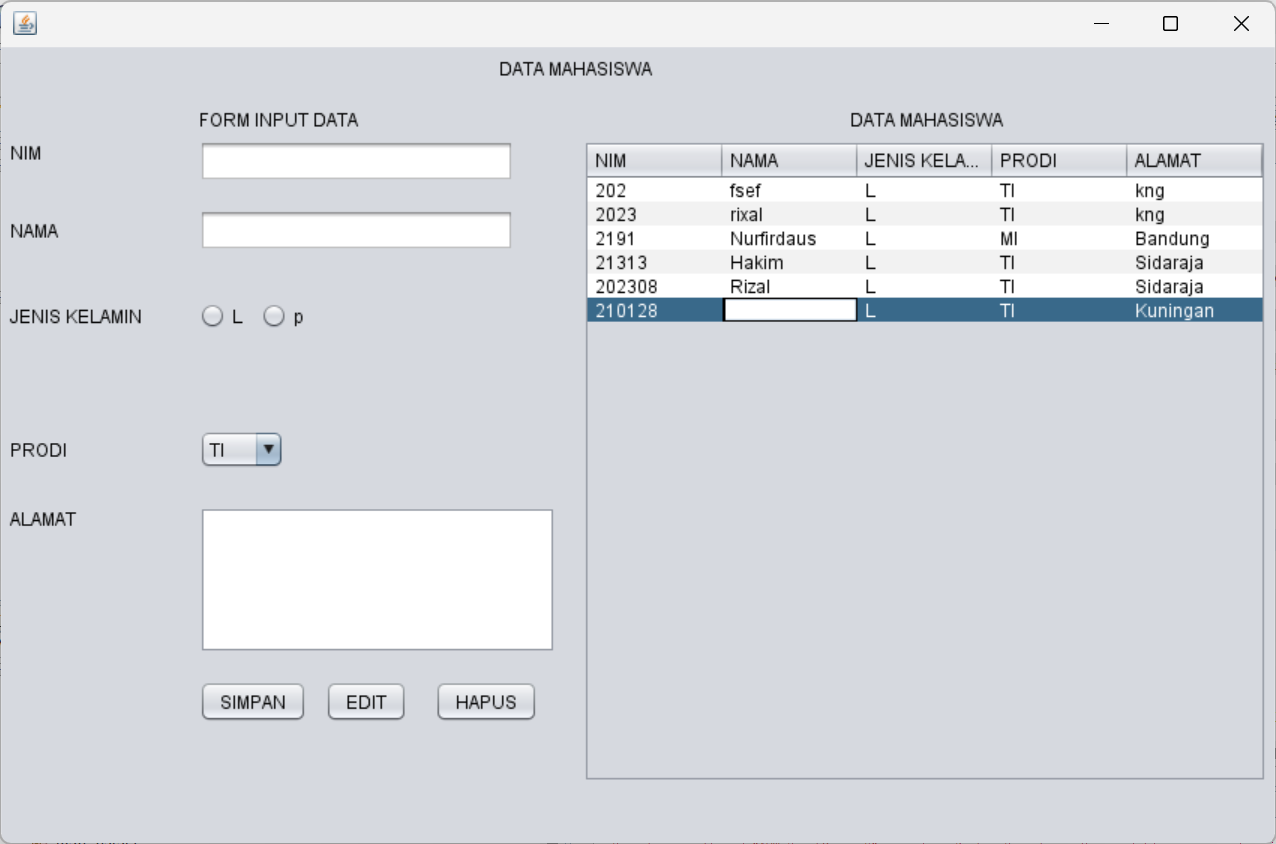
private javax.swing.JTextArea jTextArea1;

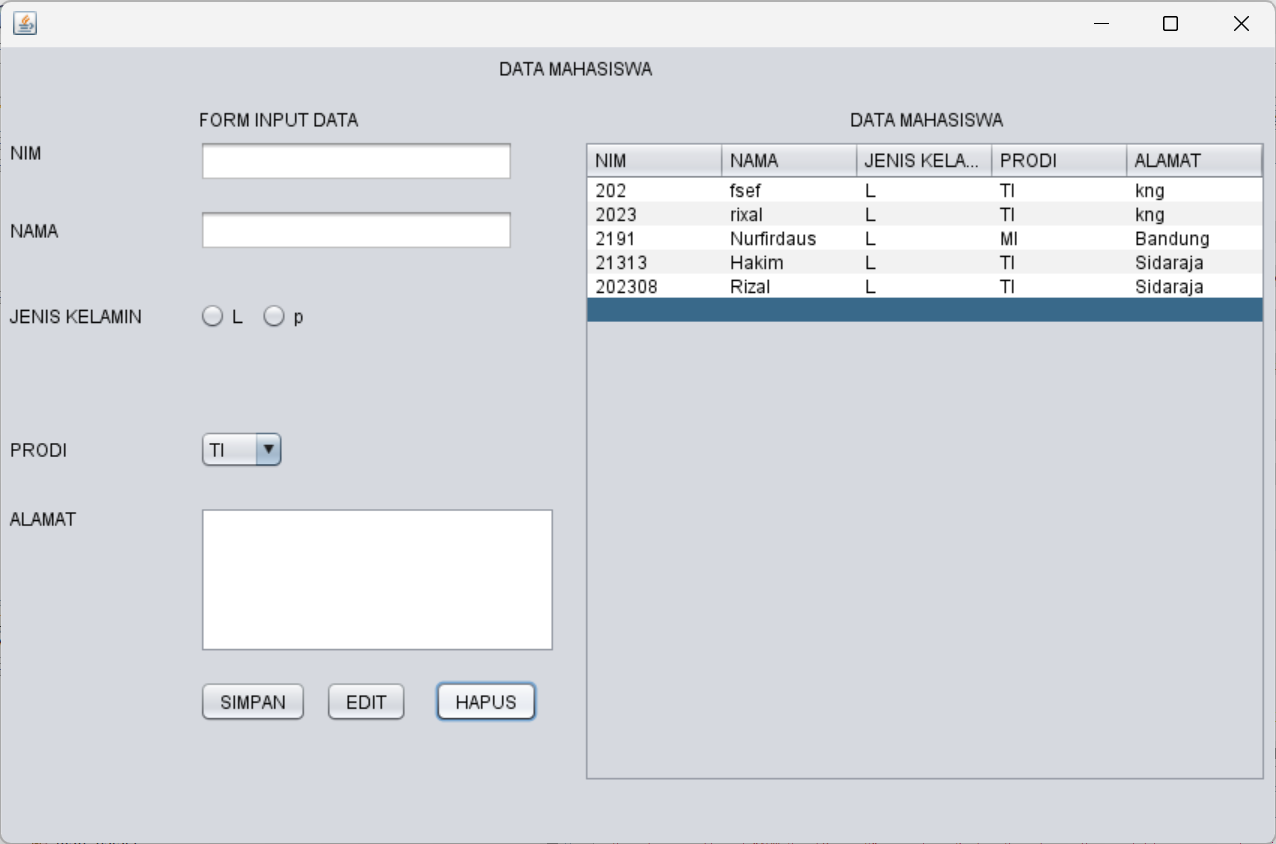
private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

// End of variables declaration

}





**Tugas**