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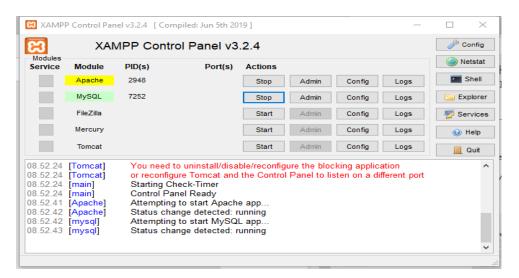
Manual Book

Aplikasi Perumahan

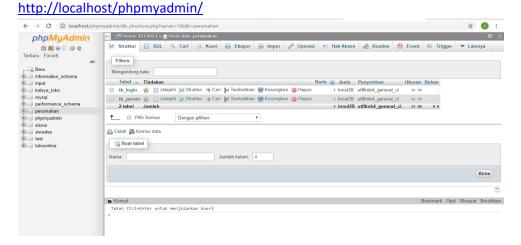
Untuk membangun aplikasi perumahan maka siapkan dulu aplikasi yang dibutuhkan seperti XAMPP dan Netbeans 8.0.4 beserta JDK nya.

Berikut langkah – langkah membuat aplikasi perumahan :

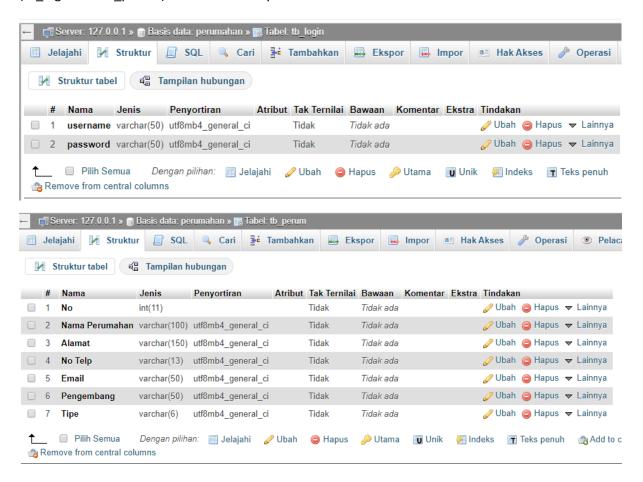
1. Buka XAMPP lalu aktifkan Apache dan MYSQL



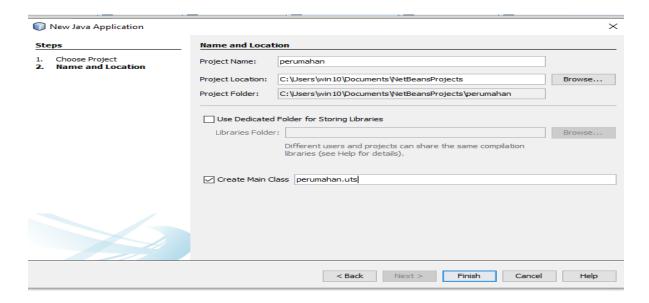
2. Buka Browser ( Saya menggunakan Google Chrome). Lalu ketikan



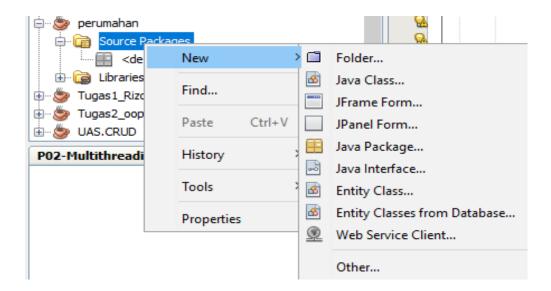
3. Membuat database baru di phpMyAdmin dengan nama perumahan. Lalu membuat 2 tabel (tb login dan tb perum) beserta atributnya.



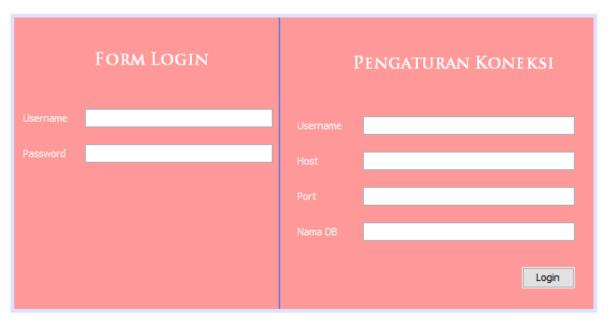
4. Setelah membuat database, buka Netbeans dan buat project baru dengan nama perumahan dengan package uts.



5. Membuat Jframe Form dengan nama formLogin



6. Buat desain form login dan koneksi



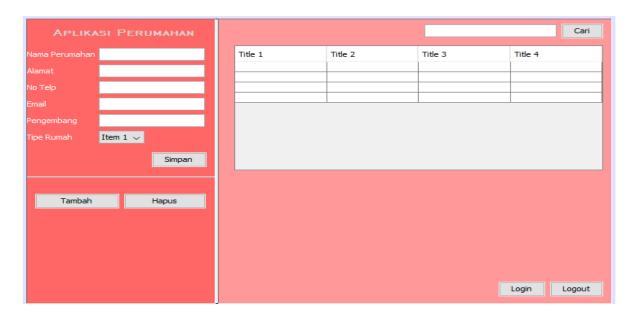
7. Ketikan kodingan dalam formLogin

```
package uts;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
public class formLogin extends javax.swing.JFrame {
   public formLogin() {
```

```
initComponents();
      }
      @SuppressWarnings("unchecked")
   private void btnSimpanActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String JDBC_DRIVER_CLASS = "com.mysql.cj.jdbc.Driver";
        String username = txtUsernameDB.getText();
        String host = ""+txtHost.getText();
        String port = ""+ txtPort.getText();
        String password = "";
        String dbName = ""+ txtDB.getText();
        String url = "jdbc:mysql://" + host + ":" + port + "/" + dbName +
   "?useTimezone=true&serverTimezone=UTC";
        Connection kon = null;
        try {
          Class.forName(JDBC DRIVER CLASS).newInstance();
          kon=DriverManager.getConnection(url,username,password);
          ResultSet rs = kon.createStatement().executeQuery("Select * FROM tb login WHERE
   username='"+txtUsername.getText()+""");
          if (rs.next()) {
            String pass = rs.getString("password");
            if
   (pass.equalsIgnoreCase(java_md5.MD5(String.valueOf(txtPassword.getPassword())))) {
              new dataPerum().setVisible(true);
              dispose();
            }else{
              JOptionPane.showMessageDialog(this, "Masukan data yang valid");
            }
          }
        } catch (Exception e) {
          e.printStackTrace();
          JOptionPane.showMessageDialog(this, "Masukan data yang valid");
        }
      }
8. Buat class baru dengan nama koneksiDB.java dan isi kodingannya
   package uts;
   import java.sql.Connection;
   import java.sql.DriverManager;
   import java.sql.SQLException;
```

```
public class koneksiDB {
  public static Connection sambungDB() {
    String JDBC_DRIVER_CLASS = "com.mysql.cj.jdbc.Driver";
    String username = "root";
    String host = "localhost";
    String port = "3306";
    String password = "";
    String dbName = "perumahan";
    String url = "jdbc:mysql://" + host + ":" + port + "/" + dbName +
"?useTimezone=true&serverTimezone=UTC";
    Connection kon = null;
    try {
      Class.forName(JDBC_DRIVER_CLASS).newInstance();
      kon = DriverManager.getConnection(url, username, password);
      System.out.println("koneksi: sukses!");
      return kon;
    } catch (ClassNotFoundException | IllegalAccessException | InstantiationException |
SQLException e) {
      System.err.println("Error: " + e.getMessage());
      System.exit(0);
    }
    return null;
  }
}
```

9. Buat JFrame Form dengan nama dataPerum lalu buat desainnya.



## 10. Ketikan kodingan pada dataPerum

```
package uts;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class dataPerum extends javax.swing.JFrame {
  int idBaris = 0;
  String role;
  DefaultTableModel model;
  private void showLogin(boolean b){
    btnLogin.setVisible(b);
  }
  private void showFrom(boolean b) {
    jSplitPane1.setDividerLocation(0.3);
    jSplitPane1.getLeftComponent().setVisible(b);
 }
  private void aturModelTabel() {
    Object[] kolom = {"No", "Nama Perumahan", "Alamat", "No Telp", "Email",
"Pengembang", "Tipe Perumahan"};
    model = new DefaultTableModel(kolom, 0) {
      boolean[] canEdit = new boolean[]{
        false, false, false, false, false, false
      };
      @Override
      public boolean isCellEditable(int rowIndex, int columnIndex) {
        return canEdit[columnIndex];
      }
    };
    tabel.setModel(model);
    tabel.setRowHeight(20);
    tabel.getColumnModel().getColumn(0).setMinWidth(0);
    tabel.getColumnModel().getColumn(0).setMaxWidth(0);
 }
```

```
private void kosong() {
  tabel.clearSelection();
  txtNama.setText("");
  txtAlamat.setText("");
  txtTelp.setText("");
  txtPengembang.setText("");
  txtEmail.setText("");
  cmbTipe.setSelectedIndex(0);
  txtNama.requestFocus();
}
private void Tipe() {
  cmbTipe.removeAllItems();
  cmbTipe.addItem("21/24");
  cmbTipe.addItem("45");
  cmbTipe.addItem("54");
  cmbTipe.addItem("36");
  cmbTipe.addItem("60");
  cmbTipe.addItem("70");
  cmbTipe.addItem("120");
  cmbTipe.addItem("lainnya");
}
private void showData(String key) {
  model.getDataVector().removeAllElements();
  String where = "";
  if (!key.isEmpty()) {
    where += "WHERE Nama Perumahan LIKE '%" + key + "%' "
        + "OR Alamat LIKE '%" + key + "%' "
        + "OR No Telp LIKE '%" + key + "%' "
        + "OR Email LIKE '%" + key + "%' "
        + "OR Pengembang LIKE '%" + key + "%'"
        + "OR No LIKE '%" + key + "%'"
        + "OR Tipe LIKE '%" + key + "%'";
  }
  String sql = "SELECT * FROM tb_perum " + where;
  Connection con;
  Statement st;
  ResultSet rs;
  int baris = 0;
  try {
    con = koneksiDB.sambungDB();
    st = con.createStatement();
```

```
rs = st.executeQuery(sql);
    while (rs.next()) {
       Object id = rs.getInt(1);
       Object nama = rs.getString(2);
       Object alamat = rs.getString(3);
       Object telp = rs.getString(4);
       Object email = rs.getString(5);
       Object pengembang = rs.getString(6);
       Object tipe = rs.getString(7);
       Object[] data = {id, nama, alamat, telp, email, pengembang, tipe};
       model.insertRow(baris, data);
       baris++;
    }
    st.close();
    con.close();
    tabel.revalidate();
    tabel.repaint();
  } catch (SQLException e) {
    System.err.println("showData(): " + e.getMessage());
  }
}
private void resetView() {
  kosong();
  showFrom(false);
  showData("");
  btnHapus.setEnabled(false);
  idBaris = 0;
}
private void pilihData(String n) {
  btnHapus.setEnabled(true);
  String sql = "SELECT * FROM tb_perum WHERE nama perumahan="" + n + """;
  Connection con;
  Statement st;
  ResultSet rs;
  try {
    con = koneksiDB.sambungDB();
    st = con.createStatement();
    rs = st.executeQuery(sql);
    while (rs.next()) {
       int id = rs.getInt(1);
       String nama = rs.getString(2);
       String alamat = rs.getString(3);
       String telp = rs.getString(4);
```

```
String email = rs.getString(5);
      String pengembang = rs.getString(6);
      Object tipe = rs.getString(7);
      idBaris = id;
      txtNama.setText(nama);
      txtAlamat.setText(alamat);
      txtTelp.setText(telp);
      txtEmail.setText(email);
      txtPengembang.setText(pengembang);
      cmbTipe.setSelectedItem(tipe);
    }
    st.close();
    con.close();
    showFrom(true);
  } catch (SQLException e) {
    System.err.println("pilihData(): " + e.getMessage());
  }
}
private void simpanData() {
  int id = 0;
  String nama = txtNama.getText();
  String alamat = txtAlamat.getText();
  String noTelp = txtTelp.getText();
  String email = txtEmail.getText();
  String pengembang = txtPengembang.getText();
  int tipe = cmbTipe.getSelectedIndex();
  if (nama.isEmpty() || alamat.isEmpty() || noTelp.isEmpty() || email.isEmpty()
       || pengembang.isEmpty() || tipe == 0) {
    JOptionPane.showMessageDialog(this, "Mohon lengkapi data!");
    String tipe_isi = cmbTipe.getSelectedItem().toString();
    String sql
         = "INSERT INTO tb_perum "
        + "VALUES ('"+ id +"','"+ nama +"','"+ alamat +"','"
         + "',"+ noTelp +"',"+ email +"',"+ pengembang +"',"+ tipe_isi + "')";
    Connection con;
    Statement st;
    try {
      con = koneksiDB.sambungDB();
      st = con.createStatement();
      st.executeUpdate(sql);
      st.close();
      con.close();
```

```
resetView();
      JOptionPane.showMessageDialog(this, "Data telah disimpan!");
    } catch (SQLException e) {
      JOptionPane.showMessageDialog(this, e.getMessage());
    }
  }
}
private void ubahData() {
  String nama = txtNama.getText();
  String alamat = txtAlamat.getText();
  String noTelp = txtTelp.getText();
  String email = txtEmail.getText();
  String pengembang = txtPengembang.getText();
  int tipe = cmbTipe.getSelectedIndex();
  if (nama.isEmpty() || alamat.isEmpty() || noTelp.isEmpty() || email.isEmpty()
      || pengembang.isEmpty() || tipe == 0) {
    JOptionPane.showMessageDialog(this, "Mohon lengkapi data!");
    String tipe_isi = cmbTipe.getSelectedItem().toString();
    String sql
        = "INSERT INTO tb_perum (Nama Perumahan, Alamat, No Telp,"
        + "Email, Pengembang, Tipe) "
        + "VALUES (\"" + nama + "\",\"" + alamat + "\","
        + "\"" + noTelp + "\",\"" + email + "\",\"" + pengembang + "\",\"" + tipe_isi + "\")";
    Connection con;
    Statement st;
    try {
      con = koneksiDB.sambungDB();
      st = con.createStatement();
      st.executeUpdate(sql);
      st.close();
      con.close();
      resetView();
      JOptionPane.showMessageDialog(this, "Data telah diubah!");
    } catch (SQLException e) {
      JOptionPane.showMessageDialog(this, e.getMessage());
    }
  }
}
private void hapusData(int baris) {
  Connection con;
  Statement st;
```

```
try {
    con = koneksiDB.sambungDB();
    st = con.createStatement();
    st.executeUpdate("DELETE FROM tb_perum WHERE id=" + baris);
    st.close();
    con.close();
    resetView();
    JOptionPane.showMessageDialog(this, "Data telah dihapus");
  } catch (SQLException e) {
    JOptionPane.showMessageDialog(this, e.getMessage());
  }
}
public dataPerum() {
  initComponents();
  aturModelTabel();
  Tipe();
  showFrom(true);
  showLogin(false);
  showData("");
}
/**
* 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() {
  container = new javax.swing.JPanel();
  jSplitPane1 = new javax.swing.JSplitPane();
  jPanel3 = new javax.swing.JPanel();
  jLabel1 = new javax.swing.JLabel();
  txtNama = new javax.swing.JTextField();
  txtAlamat = new javax.swing.JTextField();
  jLabel2 = new javax.swing.JLabel();
  txtTelp = new javax.swing.JTextField();
  jLabel3 = new javax.swing.JLabel();
  jLabel4 = new javax.swing.JLabel();
  txtEmail = new javax.swing.JTextField();
  jLabel5 = new javax.swing.JLabel();
  txtPengembang = new javax.swing.JTextField();
```

```
jLabel6 = new javax.swing.JLabel();
cmbTipe = new javax.swing.JComboBox<String>();
btnTambah = new javax.swing.JButton();
btnHapus = new javax.swing.JButton();
jLabel7 = new javax.swing.JLabel();
btnSimpan = new javax.swing.JButton();
jSeparator1 = new javax.swing.JSeparator();
jPanel1 = new javax.swing.JPanel();
jScrollPane1 = new javax.swing.JScrollPane();
tabel = new javax.swing.JTable();
txtCari = new javax.swing.JTextField();
btnCari = new javax.swing.JButton();
btnLogout = new javax.swing.JButton();
btnLogin = new javax.swing.JButton();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
addComponentListener(new java.awt.event.ComponentAdapter() {
  public void componentResized(java.awt.event.ComponentEvent evt) {
    formComponentResized(evt);
  }
});
jSplitPane1.setBackground(new java.awt.Color(0, 0, 0));
jPanel3.setBackground(new java.awt.Color(255, 102, 102));
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Nama Perumahan");
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("Alamat");
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("No Telp");
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("Email");
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("Pengembang");
jLabel6.setForeground(new java.awt.Color(255, 255, 255));
jLabel6.setText("Tipe Rumah");
```

```
cmbTipe.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Item 1",
"Item 2", "Item 3", "Item 4" }));
         btnTambah.setText("Tambah");
         btnTambah.addActionListener(new java.awt.event.ActionListener() {
              public void actionPerformed(java.awt.event.ActionEvent evt) {
                   btnTambahActionPerformed(evt);
              }
         });
         btnHapus.setText("Hapus");
         btnHapus.addActionListener(new java.awt.event.ActionListener() {
              public void actionPerformed(java.awt.event.ActionEvent evt) {
                   btnHapusActionPerformed(evt);
              }
         });
         jLabel7.setFont(new java.awt.Font("EngraversGothic BT", 1, 18)); // NOI18N
         jLabel7.setForeground(new java.awt.Color(215, 214, 214));
         jLabel7.setText("Aplikasi Perumahan");
         btnSimpan.setText("Simpan");
         btnSimpan.addActionListener(new java.awt.event.ActionListener() {
              public void actionPerformed(java.awt.event.ActionEvent evt) {
                   btnSimpanActionPerformed(evt);
              }
         });
         javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
         jPanel3.setLayout(jPanel3Layout);
         jPanel3Layout.setHorizontalGroup(
              jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel3Layout.createSequentialGroup()
                   . add Container Gap (javax.swing. Group Layout. DEFAULT\_SIZE, Short. MAX\_VALUE) \\
                   .addComponent(btnSimpan)
                   .addContainerGap())
              .addComponent(jSeparator1)
              .addGroup(jPanel3Layout.createSequentialGroup()
. add Group (jPanel 3 Layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) and the substitution of 
                        .addGroup(jPanel3Layout.createSequentialGroup()
```

```
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
              .addComponent(jLabel1, javax.swing.GroupLayout.Alignment.TRAILING)
              .addComponent(jLabel2)
              .addComponent(jLabel3)
              .addComponent(jLabel4)
              .addComponent(jLabel5)
              .addComponent(jLabel6))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
              .addComponent(cmbTipe, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
              .addComponent(txtPengembang, javax.swing.GroupLayout.PREFERRED_SIZE,
130, javax.swing.GroupLayout.PREFERRED SIZE)
              .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED SIZE)
              .addComponent(txtTelp, javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE)
              .addComponent(txtAlamat, javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE)
              .addComponent(txtNama, javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE)))
          .addGroup(jPanel3Layout.createSequentialGroup()
            .addContainerGap()
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
              .addGroup(jPanel3Layout.createSequentialGroup()
                .addComponent(btnTambah, javax.swing.GroupLayout.PREFERRED_SIZE,
103, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(6, 6, 6)
                .addComponent(btnHapus, javax.swing.GroupLayout.PREFERRED_SIZE,
100, javax.swing.GroupLayout.PREFERRED SIZE))
              .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel3Layout.createSequentialGroup()
                .addComponent(jLabel7)
                .addGap(14, 14, 14)))))
        .addGap(0, 11, Short.MAX VALUE))
    );
    jPanel3Layout.setVerticalGroup(
      jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel3Layout.createSequentialGroup()
```

```
.addContainerGap()
        .addComponent(jLabel7)
        .addGap(14, 14, 14)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(jLabel1)
          .addComponent(txtNama, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(jLabel2)
          .addComponent(txtAlamat, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(jLabel3)
          .addComponent(txtTelp, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(jLabel4)
          .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
. add Group (jPanel 3 Layout.create Parallel Group (javax.swing. Group Layout. Alignment. BASELIN) \\
E)
          .addComponent(jLabel5)
          .addComponent(txtPengembang, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(jLabel6)
          .addComponent(cmbTipe, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(14, 14, 14)
```

```
.addComponent(btnSimpan)
        .addGap(14, 14, 14)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(btnTambah)
           .addComponent(btnHapus))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    iSplitPane1.setLeftComponent(jPanel3);
    jPanel1.setBackground(new java.awt.Color(255, 153, 153));
    tabel.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"
      }
    ));
    tabel.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        tabelMouseClicked(evt);
      }
    });
    jScrollPane1.setViewportView(tabel);
    txtCari.addKeyListener(new java.awt.event.KeyAdapter() {
      public void keyReleased(java.awt.event.KeyEvent evt) {
        txtCariKeyReleased(evt);
      }
    });
    btnCari.setText("Cari");
    btnLogout.setText("Logout");
    btnLogout.addActionListener(new java.awt.event.ActionListener() {
```

```
public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnLogoutActionPerformed(evt);
      }
    });
    btnLogin.setText("Login");
    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
¡Panel1Layout.createSequentialGroup()
        .addContainerGap(19, Short.MAX VALUE)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILIN
G)
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(btnLogin)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(btnLogout))
          .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(txtCari, javax.swing.GroupLayout.PREFERRED_SIZE, 162,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(btnCari)))
        .addContainerGap())
    );
    ¡Panel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(7, 7, 7)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(txtCari, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
          .addComponent(btnCari))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 196,
javax.swing.GroupLayout.PREFERRED SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 175,
Short.MAX_VALUE)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELIN
E)
          .addComponent(btnLogout)
          .addComponent(btnLogin))
        .addContainerGap())
    );
    jSplitPane1.setRightComponent(jPanel1);
    javax.swing.GroupLayout containerLayout = new javax.swing.GroupLayout(container);
    container.setLayout(containerLayout);
    containerLayout.setHorizontalGroup(
      containerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(jSplitPane1, javax.swing.GroupLayout.Alignment.TRAILING)
    );
    containerLayout.setVerticalGroup(
      containerLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(jSplitPane1, javax.swing.GroupLayout.Alignment.TRAILING)
    );
    getContentPane().add(container, java.awt.BorderLayout.CENTER);
    pack();
  }// </editor-fold>
  private void btnHapusActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if (idBaris == 0) {
      JOptionPane.showMessageDialog(this, "Pilih data yang akan Dihapus");
    } else {
      hapusData(idBaris);
    }
  }
  private void btnTambahActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    role = "Tambah";
    btnSimpan.setText("SIMPAN");
    idBaris = 0;
    kosong();
    showFrom(true);
    btnHapus.setEnabled(false);
  }
```

```
private void btnLogoutActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  kosong();
  showFrom(false);
  idBaris = 0;
  dispose();
  showLogin(true);
}
private void btnSimpanActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  if (role.equals("Tambah")) {
    simpanData();
  } else if (role.equals("Ubah")) {
    ubahData();
  }
}
private void txtCariKeyReleased(java.awt.event.KeyEvent evt) {
  // TODO add your handling code here:
  String key = txtCari.getText();
  showData(key);
}
private void formComponentResized(java.awt.event.ComponentEvent evt) {
  // TODO add your handling code here:
  jSplitPane1.setDividerLocation(0.3);
}
private void tabelMouseClicked(java.awt.event.MouseEvent evt) {
  // TODO add your handling code here:
  role = "Ubah";
  int row = tabel.getRowCount();
  if (row > 0) {
    int sel = tabel.getSelectedRow();
    if (sel != -1) {
      pilihData(tabel.getValueAt(sel, 0).toString());
      btnSimpan.setText("Ubah 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(dataPerum.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
    } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(dataPerum.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
    } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(dataPerum.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(dataPerum.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
    }
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
        new dataPerum().setVisible(true);
      }
    });
  }
  // Variables declaration - do not modify
```

```
private javax.swing.JButton btnCari;
  private javax.swing.JButton btnHapus;
  private javax.swing.JButton btnLogin;
  private javax.swing.JButton btnLogout;
  private javax.swing.JButton btnSimpan;
  private javax.swing.JButton btnTambah;
  private javax.swing.JComboBox<String> cmbTipe;
  private javax.swing.JPanel container;
  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.JPanel jPanel1;
  private javax.swing.JPanel jPanel3;
  private javax.swing.JScrollPane jScrollPane1;
  private javax.swing.JSeparator jSeparator1;
  private javax.swing.JSplitPane jSplitPane1;
  private javax.swing.JTable tabel;
  private javax.swing.JTextField txtAlamat;
  private javax.swing.JTextField txtCari;
  private javax.swing.JTextField txtEmail;
  private javax.swing.JTextField txtNama;
  private javax.swing.JTextField txtPengembang;
  private javax.swing.JTextField txtTelp;
  // End of variables declaration
}
```