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KELAS : B2

### **TUGAS 11**

### PEMROGRAMAN BERORIENTASI OBJEK

### PEMBUATAN DATA MAHASISWA

 Buat database dan table Database : mahasiswa

Table : tabel mahasiswa



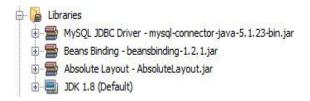
2. Program menghubungkan dengan database

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class koneksiDb {
  private static Connection mysqlconfig;
  public static Connection configDB()throws
    SQLException{
    try {
       String
    url="jdbc:mysql://localhost:3306/mahasiswa";
   //url database
       String user="root"; //user database
       String pass=""; //password database
       DriverManager.registerDriver(new
    com.mysql.jdbc.Driver());
    mysqlconfig=DriverManager.getConnection(u
    rl, user, pass);
     } catch (Exception e) {
       System.err.println("koneksi gagal
    "+e.getMessage()); //perintah menampilkan
    error pada koneksi
     }
```

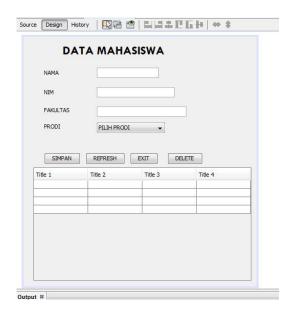
return mysqlconfig;

}

3. Menambahkan bagian Mysql JDBC driver untuk terhubung dengan database



4. form inputan



5. Listing form yang telah dibuat

# Mhs.java

```
import java.sql.Connection;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
/**
     * @author Dell
     */
public class mhs extends javax.swing.JFrame {
```

```
private JTextField txtjurusan;
  private Object smpn;
  public mhs() {
    initComponents();
    load_table();
    kosong();
private void load_table(){
// membuat tampilan model tabel
DefaultTableModel model = new DefaultTableModel();
model.addColumn("No");
model.addColumn("Nim");
model.addColumn("Nama");
model.addColumn("Jurusan");
model.addColumn("Email");
//menampilkan data database kedalam tabel
try {
int no=1;
String sql = "select * from tabel_mahasiswa";
java.sql.Connection conn=(Connection)koneksiDB.configDB();
java.sql.Statement stm=conn.createStatement();
java.sql.ResultSet res=stm.executeQuery(sql);
while(res.next()){
model.addRow(new
Object[]{no++,res.getString(1),res.getString(2),res.getString(3),res.getString(4
)});
}
tab1.setModel(model);
} catch (Exception e) {
}
private void kosong(){
  txtnim.setEditable(true);
  txtnim.setText(null);
  txtnama.setText(null);
  cbjurusan.setSelectedItem(this);
  txtemail.setText(null);
```

```
}
  /**
   * 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.
   */
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();
txtnim = new javax.swing.JTextField();
txtnama = new javax.swing.JTextField();
txtjurusan = new javax.swing.JTextField();
jScrollPane1 = new javax.swing.JScrollPane();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE)
setBackground(new java.awt.Color(44, 82, 240));
jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
jLabel1.setText("DATA MAHASISWA"); getContentPane().add(jLabel1,
new org.netbeans.lib.awtextra.AbsoluteConstraints(48, 53, 41, 31));
jLabel2.setFont(new java.awt.Font("Tahoma 11 plain", 0, 12)); // NOI18N
¡Label2.setText("Nama");
getContentPane().add(jLabel2, new
org.netbeans.lib.awtextra.AbsoluteConstraints(48, 53, 41, 31));
jLabel3.setFont(new java.awt.Font("Tahoma 11 plain", 0, 12)); // NOI18N
jLabel3.setText("NIM MAHASISWA"); getContentPane().add(jLabel3,
new org.netbeans.lib.awtextra.AbsoluteConstraints(48, 95, 41, 31));
jLabel4.setFont(new java.awt.Font("Tahoma 11 plain", 0, 12)); // NOI18N
¡Label4.setText("PRODI");
getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(48, 137, 65, 31));
jLabel5.setFont(new java.awt.Font("Tahoma 11 plain", 0, 12)); // NOI18N
¡Label5.setText("JURUSAN");
```

```
getContentPane().add(jLabel5, new
org.netbeans.lib.awtextra.AbsoluteConstraints(48, 179, 50, 31));
getContentPane().add(txtnim, new
org.netbeans.lib.awtextra.AbsoluteConstraints(172, 53, 213, 31));
txtnama.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
txtnamaActionPerformed(evt);
}
});
getContentPane().add(txtnama, new
org.netbeans.lib.awtextra.AbsoluteConstraints(172, 95, 213, 31));
getContentPane().add(txtjurusan, new
org.netbeans.lib.awtextra.AbsoluteConstraints(172, 137, 213, 31));
simpan.setText("SIMPAN");
simpan.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
simpanActionPerformed(evt);
});
getContentPane().add(simpan, new
org.netbeans.lib.awtextra.AbsoluteConstraints(231, 216, -1, 33));
edit.setText("EDIT");
edit.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
reActionPerformed(evt);
});
getContentPane().add(edit, new org.netbeans.lib.awtextra.AbsoluteConstraints(308,
216, -1, 33));
tab1.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"
}
));
```

```
tab1.addMouseListener(new java.awt.event.MouseAdapter() {
public void mouseClicked(java.awt.event.MouseEvent evt) {
tab1MouseClicked(evt);
});
jScrollPane1.setViewportView(tab1);
getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(48, 260, 337, 93));
hps.setText("HAPUS");
hps.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
edtActionPerformed(evt);
}
});
getContentPane().add(hps, new org.netbeans.lib.awtextra.AbsoluteConstraints(253,
359, -1, 33));
klr.setText("KELUAR");
klr.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
hpsActionPerformed(evt);
}
});
getContentPane().add(, new org.netbeans.lib.awtextra.AbsoluteConstraints(314,
359, -1, 33));
pro.setFont(new java.awt.Font("Tahoma", 0, 12)); // NOI18N
pro.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Teknik
Informatika", "Sistem Informasi" }));
pro.setName(""); // NOI18N
pro.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
proActionPerformed(evt);
}
getContentPane().add(pro, new org.netbeans.lib.awtextra.AbsoluteConstraints(172,
179, 213, 31));
pack();
}// </editor-fold>
private void txtnamaActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
```

```
private void smpnActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
try {
String sql = "INSERT INTO tabel_mahasiswa VALUES
("'+txtnim.getText()+"',"'+txtnama.getText()+"',"'+txtfak.getText()+"',"'+pro.getSelectedI
em()+"')";
java.sql.Connection conn=(Connection)koneksiDb.configDB();
java.sql.PreparedStatement pst=conn.prepareStatement(sql);
pst.execute();
JOptionPane.showMessageDialog(null, "Penyimpanan Data Berhasil");
} catch (Exception e) {
JOptionPane.showMessageDialog(this, e.getMessage());
load_table();
kosong();
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">
  private void initComponents() {
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    txtnim = new javax.swing.JTextField();
    txtnama = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    cbjurusan = new javax.swing.JComboBox<>();
    jLabel5 = new javax.swing.JLabel();
    txtemail = new javax.swing.JTextField();
    btHapus = new javax.swing.JButton();
    btKeluar = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    tablemahasiswa = new javax.swing.JTable();
    btSimpan = new javax.swing.JButton();
    btEdit = new javax.swing.JButton();
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    jLabel1.setFont(new java.awt.Font("Tw Cen MT", 1, 24)); // NOI18N
```

```
jLabel1.setText("DATA MAHASISWA");
    jLabel1.setName(""); // NOI18N
    ¡Label2.setText("NIM");
    txtnim.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         txtnimActionPerformed(evt);
    });
    txtnama.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         txtnamaActionPerformed(evt);
    });
    jLabel3.setText("NAMA MAHASISWA");
    ¡Label4.setText("JURUSAN");
    cbjurusan.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"PILIH JURUSAN", "TEKNIK INFORMATIKA", "SISTEM INFORMASI", " " }));
    cbjurusan.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         cbjurusanActionPerformed(evt);
    });
    jLabel5.setText("EMAIL");
    txtemail.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         txtemailActionPerformed(evt);
    });
    btHapus.setText("HAPUS");
    btHapus.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
btHapusActionPerformed(evt);
       }
     });
     btKeluar.setText("KELUAR");
     btKeluar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btKeluarActionPerformed(evt);
     });
     tablemahasiswa.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"
       }
     ));
     jScrollPane1.setViewportView(tablemahasiswa);
     btSimpan.setText("SIMPAN");
     btSimpan.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btSimpanActionPerformed(evt);
     });
     btEdit.setText("EDIT");
     btEdit.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btEditActionPerformed(evt);
     });
     javax.swing.GroupLayout
                                             layout
                                                                                    new
javax.swing.GroupLayout(getContentPane());
```

```
getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jLabel1)
        .addGap(240, 240, 240))
      .addGroup(layout.createSequentialGroup()
         .addGap(40, 40, 40)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addComponent(jLabel2)
           .addComponent(jLabel3)
           .addComponent(jLabel4)
           .addComponent(iLabel5)
           .addComponent(btSimpan)
           .addComponent(btEdit))
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addGroup(layout.createSequentialGroup()
             .addGap(32, 32, 32)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
               .addComponent(cbjurusan,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED SIZE)
               .addComponent(txtnim,
javax.swing.GroupLayout.PREFERRED_SIZE,
                                                                           121,
javax.swing.GroupLayout.PREFERRED_SIZE)
               .addComponent(txtnama,
javax.swing.GroupLayout.PREFERRED_SIZE,
                                                                           152,
javax.swing.GroupLayout.PREFERRED_SIZE)
               .addComponent(txtemail,
javax.swing.GroupLayout.PREFERRED_SIZE,
                                                                            175.
javax.swing.GroupLayout.PREFERRED_SIZE)))
           .addGroup(layout.createSequentialGroup()
             .addGap(174, 174, 174)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
               .addComponent(btHapus)
               .addComponent(btKeluar))))
         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
32, Short.MAX_VALUE)
         .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
426, javax.swing.GroupLayout.PREFERRED_SIZE)
         .addContainerGap())
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
         .addContainerGap()
         .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 31,
javax.swing.GroupLayout.PREFERRED_SIZE)
         .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
           .addComponent(jLabel2)
           .addComponent(txtnim,
                                     javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addGroup(layout.createSequentialGroup()
             .addGap(18, 18, 18)
. add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
)
               .addComponent(txtnama,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
               .addComponent(iLabel3))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
)
```

```
.addComponent(cbjurusan,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
               .addComponent(jLabel4))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
               .addComponent(jLabel5)
               .addComponent(txtemail,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
               .addComponent(btHapus)
               .addComponent(btSimpan))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE
               .addComponent(btKeluar)
               .addComponent(btEdit))
             .addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE,
Short.MAX VALUE))
           .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
             .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED SIZE,
                                                                          221.
javax.swing.GroupLayout.PREFERRED_SIZE)
             .addGap(29, 29, 29))))
    );
```

```
jLabel1.getAccessibleContext().setAccessibleName("");
  getAccessibleContext().setAccessibleName("Aplikasi Data Mahasiswa");
  pack();
  setLocationRelativeTo(null);
}// </editor-fold>
private void txtnimActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
}
private void btKeluarActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  system.exit(0);
}
private void txtnamaActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
}
private void cbjurusanActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
}
private void txtemailActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
}
private void btSimpanActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
}
private void btEditActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
}
private void btHapusActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
```

```
}
public static void main(String args[]) {
  java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
       new mhs().setVisible(true);
  });
// Variables declaration - do not modify
private javax.swing.JButton btEdit;
private javax.swing.JButton btHapus;
private javax.swing.JButton btKeluar;
private javax.swing.JButton btSimpan;
private javax.swing.JComboBox<String> cbjurusan;
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.JScrollPane jScrollPane1;
private javax.swing.JTable tablemahasiswa;
private javax.swing.JTextField txtemail;
private javax.swing.JTextField txtnama;
private javax.swing.JTextField txtnim;
// End of variables declaration
```

## 6. Hasil run program

}

