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KELAS : B1

TUGAS 11

PEMROGRAMAN BERORIENTASI OBJEK

PEMBUATAN FORM DATA MAHASISWA

1. Buat database dan table

Database : mahasiswa

Table : tabel_mahasiswa

Server: 127.0.0.1 » Basis data: mahasiswa » Tabel: tabel_mahasiswa

</

2. Program menghubungkan

dengan database import

```
java.sql.Connection; import
```

```
java.sql.DriverManager;
```

```
import java.sql.SQLException;
```

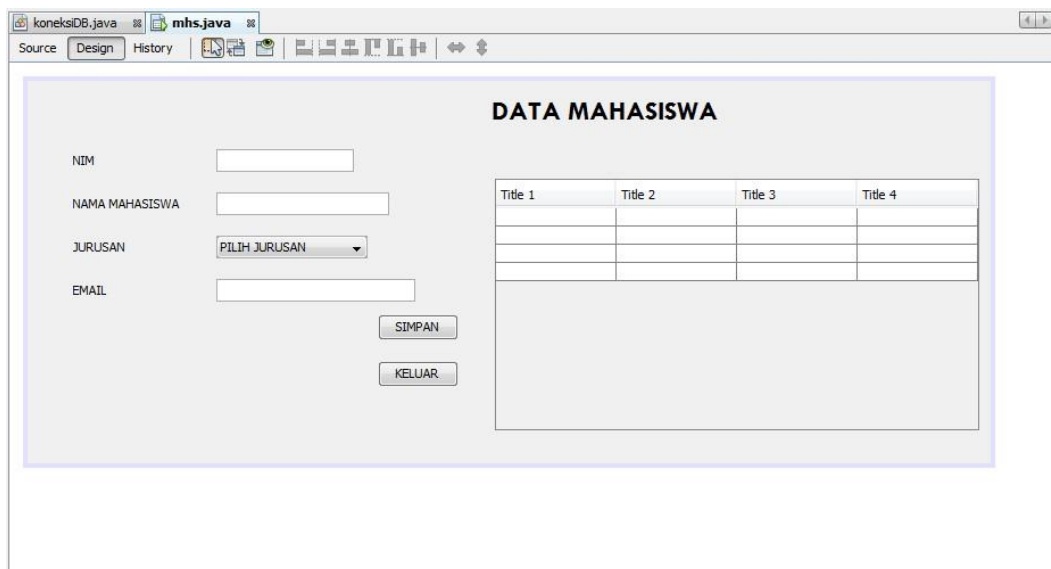
```
public class koneksiDB {  
    private static Connection mysqlconfig;  
    public static Connection configDB()throws SQLException{  
        try {  
            String url="jdbc:mysql://localhost:3306/mahasiswa"; //url database  
            String user="root"; //user database  
            String pass=""; //password database  
            DriverManager.registerDriver(new com.mysql.jdbc.Driver());  
            mysqlconfig=DriverManager.getConnection(url, user, pass);  
        } catch (SQLException 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. Membuat 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("BIODATA 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
jLabel2.setText("NIM"); 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("NAMA 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
jLabel4.setText("JURUSAN"); 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 jLabel5.setText("EMAIL");
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.setViewportViewView(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
t
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

    jLabel2.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");

jLabel4.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.setViewportViewView(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(240, true)
                    .addComponent(jLabel1)
                    .addGap(240, 240, 240)
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel2)
                        .addComponent(jLabel3)
                        .addComponent(jLabel4)
                        .addComponent(jLabel5)
                        .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,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtnama,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtemail,
javax.swing.GroupLayout.PREFERRED_SIZE,
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()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(txtnama,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel3))
            .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))
            .addGap(18, 18, 18)

            .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

Data Mahasiswa

NIM :

Nama :

Jurusan:

Title 1	Title 2	Title 3	Title 4