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Kelas : B2

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## LAPORAN TUGAS 11

1. Buat database dan table Database : mahasiswa  
Table : tabel\_mahasiswa

| #                        | Name | Type    | Collation   | Attributes      | Null | Default | Comments | Extra | Action             |
|--------------------------|------|---------|-------------|-----------------|------|---------|----------|-------|--------------------|
| <input type="checkbox"/> | 1    | nim     | int(11)     |                 | No   | None    |          |       | Change  Drop  More |
| <input type="checkbox"/> | 2    | nama    | varchar(30) | utf8_general_ci | No   | None    |          |       | Change  Drop  More |
| <input type="checkbox"/> | 3    | jurusan | varchar(40) | utf8_general_ci | No   | None    |          |       | Change  Drop  More |

2. Membuat class yang menghubungkan dengan database :

```
package com.kruwell.program;
```

```
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.SQLException;
```

```
/**  
 *  
 * @author HP14s  
 */  
public class datamhs {
```

```
    private static Connection MySQLConfig;
```

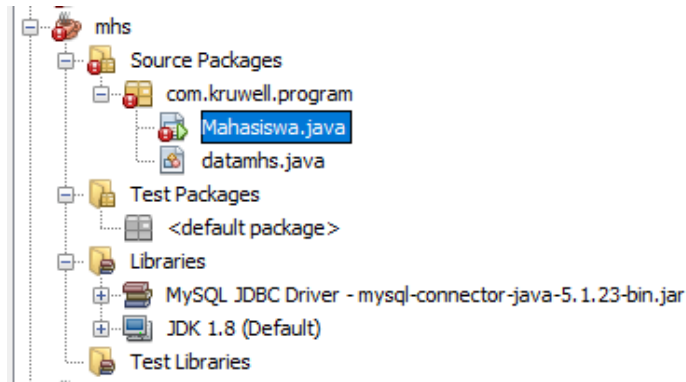
```
    public static Connection configDB()throws SQLException{  
        try{  
            String url = "jdbc:mysql://localhost:3306/Mahasiswa";  
            String user = "root";  
            String pass = "";  
  
            DriverManager.registerDriver(new com.mysql.jdbc.Driver());  
            MySQLConfig = DriverManager.getConnection(url, user, pass);  
        }catch(SQLException e){  
            System.out.println("Maaf, koneksi ke database gagal" + e.getMessage());  
        }  
        return MySQLConfig;
```

```

    }
}

```

3. Menambahkan bagian Mysql JDBC driver untuk terhubung dengan database



4. Membuat JFrame form inputan

***Data Mahasiswa***

NIM :

Nama :

Jurusan:

Tambah Data
Simpan
Edit

| Title 1 | Title 2 | Title 3 | Title 4 |
|---------|---------|---------|---------|
|         |         |         |         |
|         |         |         |         |
|         |         |         |         |
|         |         |         |         |

Batal
Keluar

5. Listing JFrame form

```

Mahasiswa.java
package com.kruwell.program;

import java.sql.Connection;
import javax.swing.table.DefaultTableModel;
import java.sql.SQLException;

/**
 *
 * @author HP14s
 */
public class Mahasiswa extends javax.swing.JFrame {

    private void kosongkan_form(){

```

```

        txtNIM.setEditable(true);
        txtNIM.setText(null);
        txtNama.setText(null);
        txtJurusan.setText(null);
    }

    private void tampilkan_data(){

        DefaultTableModel model = new DefaultTableModel();
        model.addColumn("No.");
        model.addColumn("NIM");
        model.addColumn("Nama");
        model.addColumn("Jurusan");

        try{
            int no = 1;
            String sql = "SELECT * FROM Mahasiswa";
            java.sql.Connection conn = (Connection)datamhs.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))}
            }
            tabelMhs.setModel(model);

        }catch(SQLException e){
            System.out.println("Error" + e.getMessage());
        }

    }
    /**
     * Creates new form Mahasiswa
     */
    public Mahasiswa() {
        initComponents();
        tampilkan_data();
        kosongkan_form();
    }

    /**
     * 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();
    txtNIM = new javax.swing.JTextField();
    txtNama = new javax.swing.JTextField();
    txtJurusan = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    tabelMhs = new javax.swing.JTable();
    tbTbh = new javax.swing.JButton();
    tbSimpan = new javax.swing.JButton();
    tbEdit = new javax.swing.JButton();
    tbKeluar = new javax.swing.JButton();
    tbBtl = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("App Mahasiswa");

    jLabel1.setFont(new java.awt.Font("Tahoma", 3, 18)); // NOI18N
    jLabel1.setText("Data Mahasiswa");

    jLabel2.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
    jLabel2.setText("NIM   :");

    jLabel3.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
    jLabel3.setText("Nama :");

    jLabel4.setFont(new java.awt.Font("Tahoma", 0, 12)); // NOI18N
    jLabel4.setText("Jurusan:");

    tabelMhs.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(tabelMhs);

    tbTbh.setText("Tambah Data");

    tbSimpan.setText("Simpan");

    tbEdit.setText("Edit");

```

[illegible]

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addGap(0, 0, Short.MAX_VALUE)
    .addComponent(jLabel1)
    .addGap(203, 203, 203))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(tbBtl)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(tbKeluar)
    .addContainerGap())
    .addGroup(layout.createSequentialGroup()
    .addComponent(tbTbh)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(tbSimpan)
    .addGap(18, 18, 18)
    .addComponent(tbEdit)
    .addContainerGap()))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
    .addGap(30, 30, 30)
    .addComponent(jLabel1)
    .addGap(38, 38, 38)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jLabel2)
    .addComponent(txtNIM, 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(jLabel3)
    .addComponent(txtNama, 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(jLabel4)
    .addComponent(txtJurusan, 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(tbTbh)
            .addComponent(tbSimpan)
            .addComponent(tbEdit))
        .addGap(30, 30, 30)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(tbKeluar)
            .addComponent(tbBtl))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );

    pack();
    setLocationRelativeTo(null);
} // </editor-fold>

private void tbKeluarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    System.exit(0);
}

/**
 * @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(Mahasiswa.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Mahasiswa.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

```

```

java.util.logging.Logger.getLogger(Mahasiswa.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Mahasiswa.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 Mahasiswa().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable tabelMhs;
private javax.swing.JButton tbBtl;
private javax.swing.JButton tbEdit;
private javax.swing.JButton tbKeluar;
private javax.swing.JButton tbSimpan;
private javax.swing.JButton tbTbh;
private javax.swing.JTextField txtJurusan;
private javax.swing.JTextField txtNIM;
private javax.swing.JTextField txtNama;
// End of variables declaration
}

```



### ***Data Mahasiswa***

NIM :

Nama :

Jurusan:

| Title 1 | Title 2 | Title 3 | Title 4 |
|---------|---------|---------|---------|
|         |         |         |         |
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