

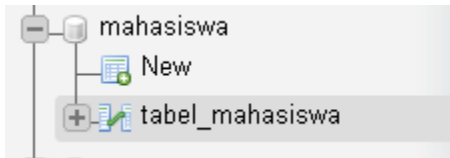
Laporan Input Data Mahasiswa

Nama : Resky Ayu Dewi Talasari

Kelas : B2

Nim : 13020180128

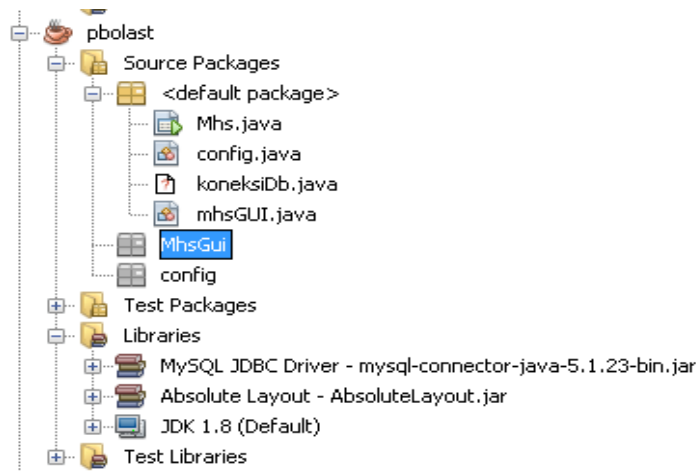
1. Membuat database



2. Membuat Tabel

	Browse	Structure	SQL	Search	
#	Name	Type	Collation		A
<input type="checkbox"/> 1	Nim	varchar(20)	latin1_swedish_ci		
<input type="checkbox"/> 2	Nama	varchar(20)	latin1_swedish_ci		
<input type="checkbox"/> 3	Jenis Kelamin	enum('Lk', 'Pr', '', '')	latin1_swedish_ci		
<input type="checkbox"/> 4	Prodi	enum('TI', 'SI', '', '')	latin1_swedish_ci		

3. Membuat project



4. Membuat class config.java sebagai koneksi database

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

public class config {
    private static Connection mysqlconfig;
    public static Connection configDB()throws SQLException{
        try {
            String url="jdbc:mysql://localhost:3306/mahasiswa";
```

```
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());
}
return mysqlconfig;
}
}
```

5. Membuat JFrame class

Input Data Mahasiswa

Nim

Nama

Jenis Kelamin

Lk

Prodi

TI

Add

Save

Exit

Title 1	Title 2	Title 3	Title 4

6. Membuat class mhsGui

```
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.SQLException;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

public class mhsGUI extends javax.swing.JFrame {
    public mhsGUI() {
        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("Jenis Kelamin");
        model.addColumn("Prodi");

        //menampilkan data database kedalam tabel
        try {
            int no=1;
            String sql = "select * from tabel_mahasiswa";
            java.sql.Connection conn;
            conn = (Connection)config.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 (SQLException e) {
        }
    }

    private void kosong(){
        txtnim.setText(null);
        txtnama.setText(null);
        pro.setSelectedItem(this);
        txtfak.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.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-
BEGIN: initComponents
    private void initComponents() {

        jTextField3 = new javax.swing.JTextField();
        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();
txtfak = new javax.swing.JTextField();
smpn = new javax.swing.JButton();
re = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
tab1 = new javax.swing.JTable();
edt = new javax.swing.JButton();
hps = new javax.swing.JButton();
pro = new javax.swing.JComboBox<>();

jTextField3.setText("jTextField1");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(44, 82, 240));
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

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(120, 11, 233, 34));

jLabel2.setFont(new java.awt.Font("Tempus Sans ITC", 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("Tempus Sans ITC", 0, 12)); // NOI18N
jLabel3.setText("NAMA");
getContentPane().add(jLabel3, new
org.netbeans.lib.awtextra.AbsoluteConstraints(48, 95, 41, 31));

jLabel4.setFont(new java.awt.Font("Tempus Sans ITC", 0, 12)); // NOI18N
jLabel4.setText("FAKULTAS");
getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(48, 137, 65, 31));

jLabel5.setFont(new java.awt.Font("Tempus Sans ITC", 0, 12)); // NOI18N
jLabel5.setText("PRODI");
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(txtfak, new
org.netbeans.lib.awtextra.AbsoluteConstraints(172, 137, 213, 31));

        smpn.setText("SIMPAN");
        smpn.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                smpnActionPerformed(evt);
            }
        });
        getContentPane().add(smpn, new
org.netbeans.lib.awtextra.AbsoluteConstraints(231, 216, -1, 33));

        re.setText("REFRESH");
        re.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                reActionPerformed(evt);
            }
        });
        getContentPane().add(re, 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));

        edt.setText("EDIT");
        edt.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                edtActionPerformed(evt);
            }
        });
        getContentPane().add(edt, new
org.netbeans.lib.awtextra.AbsoluteConstraints(253, 359, -1, 33));

        hps.setText("HAPUS");
        hps.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                hpsActionPerformed(evt);
            }
        });
        getContentPane().add(hps, 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> //GEN-END: initComponents

```

```

    private void txtnamaActionPerformed(java.awt.event.ActionEvent evt) {GEN-
FIRST:event_txtnamaActionPerformed
        // TODO add your handling code here:
    }GEN-LAST:event_txtnamaActionPerformed

    private void smpnActionPerformed(java.awt.event.ActionEvent evt) {GEN-
FIRST:event_smpnActionPerformed
        // TODO add your handling code here:
        try {
            String sql = "INSERT INTO tabel_mahasiswa VALUES
('"+txtnim.getText()+"','"+txtnama.getText()+"','"+txtfak.getText()+"','"+pro.getS
electedItem()+"')";
            java.sql.Connection conn;
            conn = (Connection)config.configDB();
            java.sql.PreparedStatement pst=conn.prepareStatement(sql);
            pst.execute();
            JOptionPane.showMessageDialog(null, "Penyimpanan Data Berhasil");
        } catch (HeadlessException | SQLException e) {
            JOptionPane.showMessageDialog(this, e.getMessage());
        }
        load_table();
        kosong();
    }GEN-LAST:event_smpnActionPerformed

    private void proActionPerformed(java.awt.event.ActionEvent evt) {GEN-
FIRST:event_proActionPerformed
        // TODO add your handling code here:
    }GEN-LAST:event_proActionPerformed

    private void tab1MouseClicked(java.awt.event.MouseEvent evt) {GEN-
FIRST:event_tab1MouseClicked
        // TODO add your handling code here:
        // menampilkan data kedalam form pengisian:
        int baris = tab1.rowAtPoint(evt.getPoint());
        String nomhs =tab1.getValueAt(baris, 1).toString();
        String nim = null;
        txtnim.setText(nim);
        String nama = tab1.getValueAt(baris,2).toString();
        txtnama.setText(nama);
        String jurusan = tab1.getValueAt(baris,2).toString();
        String jenis_kelamin = null;

```

```

        txtfak.setText(jenis_kelamin);

        String prodi = tab1.getValueAt(baris, 3).toString();
        pro.setSelectedItem(prodi);
    }//GEN-LAST:event_tab1MouseClicked

    private void edtActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_edtActionPerformed
        // TODO add your handling code here:
        // Edit Data
        try {
            String sql = "UPDATE tabel_mahasiswa SET nama =
            '"+txtnim.getText()+"', nama = '"+txtnama.getText()+"', jurusan =
            '"+txtfak.getText()+"', prodi = '"+pro.getSelectedItem()+"' WHERE nomhs =
            '"+txtnim.getText()+"'";

            java.sql.Connection conn;
            conn = (Connection)config.configDB();
            java.sql.PreparedStatement pst=conn.prepareStatement(sql);
            pst.execute();

            JOptionPane.showMessageDialog(null, "data berhasil di edit");
        } catch (HeadlessException | SQLException e) {
            JOptionPane.showMessageDialog(null, "Perubahan Data
            Gagal"+e.getMessage());
        }
        load_table();
        kosong();
    }//GEN-LAST:event_edtActionPerformed

    private void reActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_reActionPerformed
        // TODO add your handling code here:
        kosong();
    }//GEN-LAST:event_reActionPerformed

    private void hpsActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_hpsActionPerformed
        // TODO add your handling code here:
        // fungsi hapus data
        try {
            String sql = "delete from tabel_mahasiswa where
            nomhs='"+txtnim.getText()+"'";

            java.sql.Connection conn;
            conn = (Connection)config.configDB();

```



```

        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        JOptionPane.showMessageDialog(this, "berhasil di hapus");
    } catch (HeadlessException | SQLException e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    load_table();
    kosong();
} //GEN-LAST:event_hpsActionPerformed

/**
 * @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(mhsGUI.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);

    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(mhsGUI.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(mhsGUI.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);

```

```

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(mhsGUI.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater() -> {
        new mhsGUI().setVisible(true);
    };
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton edt;
private javax.swing.JButton hps;
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.JTextField jTextField3;
private javax.swing.JComboBox<String> pro;
private javax.swing.JButton re;
private javax.swing.JButton smpn;
private javax.swing.JTable tab1;
private javax.swing.JTextField txtfak;
private javax.swing.JTextField txtnama;
private javax.swing.JTextField txtnim;
// End of variables declaration//GEN-END:variables
}








```





7. Run program

<

8. Data akan otomatis masuk ke database

+ Options

				Nim	Nama	Jenis Kelamin	Prodi
<input type="checkbox"/>	 Edit	 Copy	 Delete	A012	Bayu	Lk	TI
<input type="checkbox"/>	 Edit	 Copy	 Delete	A112685	Ani	Pr	TI

 ☐ Check All *With selected:*  Change  Delete  Export