



**PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS PELITA BANGSA**

UJIAN TENGAH SEMESTER GANJIL TA 2024/2025

Mata Kuliah : Pemograman Visual
Program Studi/Semester : Teknik Informatika /
Hari/Tanggal : 07 November 2024
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LAPORAN PRAKTIKUM 6 DAN 7

❖ **Source Code**

- **Config/KoneksiDB..Java**

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
 license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package Config;

/**
 *
 * @author acer
 */
import java.sql.*;
import javax.swing.JOptionPane;

public class KoneksiDB {
    private static Connection conn;
    public static Connection getKoneksi() {
        try {
            //untuk menentukan driver DB
```

```

Class.forName("com.mysql.cj.jdbc.Driver");

//untuk membuat koneksi dari DB ke driver
String url = "jdbc:mysql://localhost:3306/pv_biodata";
String user = "root";
String password = "";
conn = DriverManager.getConnection(url, user, password);

//pesan jika koneksi berhasil
JOptionPane.showMessageDialog(null, "Koneksi Berhasil");
} catch (Exception e) {
//pesan jika koneksi gagal
JOptionPane.showMessageDialog(null, "Koneksi Gagal");
}
return conn;
}
}

```

- **Config/cekKoneksi.Java**

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
 * license
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 * template
 */
package Config;

/**
 *
 * @author acer
 */
import java.sql.Connection;
import javax.swing.JOptionPane;
public class cekKoneksi extends javax.swing.JFrame {

    /**
     * Creates new form cekKoneksi
     */
    public cekKoneksi() {
        initComponents();
    }

    /**
     * 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() {

        btnCekKoneksi = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

```

```

    btnCekKoneksi.setText("Cek Koneksi");
    btnCekKoneksi.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnCekKoneksiActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(140, 140, 140)
                .addComponent(btnCekKoneksi)
                .addGap(166, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(124, 124, 124)
                .addComponent(btnCekKoneksi)
                .addGap(153, Short.MAX_VALUE))
    );

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

private void btnCekKoneksiActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Connection conn = new KoneksiDB().getKoneksi();
}

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

```

```

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton btnCekKoneksi;
// End of variables declaration
}

```

- **Form/FormBiodata.Java**

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
 * license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
 * template
 */
package Form;

/**
 *
 * @author Zulaeha TI.22.A.5
 */
import Config.KoneksiDB;
import javax.swing.JOptionPane;
import java.sql.*;
import javax.swing.table.DefaultTableModel;
import java.sql.PreparedStatement;

public class FormBiodata extends javax.swing.JFrame {
    private Statement st;
    private ResultSet rs;
    private Connection conn;
    private PreparedStatement pst;

    /**

```

```

* Creates new form FormBiodata
*/
public FormBiodata() {
    initComponents();
    conn = KoneksiDB.getKoneksi();
    tampilData();
}

private void tampilData() {
    DefaultTableModel kolomtabel = new DefaultTableModel();
    kolomtabel.addColumn("No.");
    kolomtabel.addColumn("Nama");
    kolomtabel.addColumn("NIM");
    kolomtabel.addColumn("TTL");
    kolomtabel.addColumn("Jenis Kelamin");
    kolomtabel.addColumn("Prodi");
    kolomtabel.addColumn("No. Telepon");
    kolomtabel.addColumn("Alamat");

    try {
        int nomor = 1;

        // buat objek statement untuk mengeksekusi query mysql.
        st = conn.createStatement();

        // buat query ke database
        String sql = "SELECT * FROM tbl_biodata";

        // eksekusi query dan simpan hasilnya di objek ResultSet
        rs = st.executeQuery(sql);

        // tampilkan hasil query menggunakan perulangan while
        while (rs.next()) {
            kolomtabel.addRow(new Object[]{
                ("" + nomor++),
                rs.getString("nama"),
                rs.getString("nim"),
                rs.getString("ttl"),
                rs.getString("jkel"),
                rs.getString("prodi"),
                rs.getString("notelp"),
                rs.getString("alamat"),});
            tbl_biodata.setModel(kolomtabel);
            tbl_biodata.enable(true);
            tfNama.requestFocus();
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Gagal menampilkan data."
            + "\n" + e.getMessage());
    }
}

private void clearForm() {
    tfNama.setText("");
    tfNIM.setText("");
}

```

```

tfTTL.setText("");
buttonGroup1.clearSelection();
cmbProdi.setSelectedItem("-- Program Studi --");
tfNomorTelepon.setText("");
taAlamat.setText("");
tfNama.requestFocus();
}

private void hapusData() {
    int row = tbl_biodata.getSelectedRow();
    if (row == -1) {
        JOptionPane.showMessageDialog(this, "Pilih baris yang akan di hapus !");
        return;
    }
    int jawab = JOptionPane.showOptionDialog(this,
        "Apakah Anda ingin menghapus data ini?",
        "Konfirmasi",
        JOptionPane.YES_NO_OPTION,
        JOptionPane.QUESTION_MESSAGE, null, null, null);
    if (jawab == JOptionPane.YES_OPTION) {
        try {
            String sql = "DELETE FROM tbl_biodata WHERE nim=" +
                tfNIM.getText() + " ";
            pst = conn.prepareStatement(sql);
            pst.executeUpdate();
            JOptionPane.showMessageDialog(null, "Data berhasil di hapus");
            clearForm();
            tampilData();
        } catch (Exception e) {
            JOptionPane.showMessageDialog(this, e.getMessage());
        }
    } else {
        clearForm();
        tampilData();
    }
}
/**
 * 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() {

    buttonGroup1 = new javax.swing.ButtonGroup();
    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();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    tfNama = new javax.swing.JTextField();

```

```

tfNIM = new javax.swing.JTextField();
tfTTL = new javax.swing.JTextField();
rbLaki = new javax.swing.JRadioButton();
rbPerempuan = new javax.swing.JRadioButton();
cmbProdi = new javax.swing.JComboBox<>();
tfNomorTelepon = new javax.swing.JTextField();
jScrollPane1 = new javax.swing.JScrollPane();
taAlamat = new javax.swing.JTextArea();
btnSubmit = new javax.swing.JButton();
btnClear = new javax.swing.JButton();
btnUpdate = new javax.swing.JButton();
btnDelete = new javax.swing.JButton();
btnExit = new javax.swing.JButton();
jScrollPane2 = new javax.swing.JScrollPane();
tbl_biodata = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
jLabel1.setText("Biodata");

jLabel2.setText("Nama Mahasiswa/i :");

jLabel3.setText("NIM :");

jLabel4.setText("Tempat dan Tgl. Lahir :");

jLabel5.setText("Jenis Kelamin :");

jLabel6.setText("Prodi :");

jLabel7.setText("Telepon :");

jLabel8.setText("Alamat :");

buttonGroup1.add(rbLaki);
rbLaki.setText("Laki-laki");

buttonGroup1.add(rbPerempuan);
rbPerempuan.setText("Perempuan");

cmbProdi.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--
Program Studi --", "Teknik Informatika", "Teknik Industri", "Teknik Lingkungan", "Teknik
Sipil", "Teknologi Hasil Pertanian", "Arsitektur", "Bisnis Digital", "Manajemen",
"Kewirausahaan", "Akuntansi", "Hukum", "Ekonomi Syariah", "PGSD", "PGPAUD", "BKPI"
}));

tfNomorTelepon.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tfNomorTeleponActionPerformed(evt);
    }
});

taAlamat.setColumns(20);
taAlamat.setRows(5);

```

```

jScrollPane1.setViewportViewView(taAlamat);

btnSubmit.setText("Submit");
btnSubmit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnSubmitActionPerformed(evt);
    }
});

btnClear.setText("Clear");
btnClear.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnClearActionPerformed(evt);
    }
});

btnUpdate.setText("Update");
btnUpdate.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnUpdateActionPerformed(evt);
    }
});

btnDelete.setText("Delete");
btnDelete.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnDeleteActionPerformed(evt);
    }
});

btnExit.setText("Exit");
btnExit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnExitActionPerformed(evt);
    }
});

tbl_biodata.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"
    }
));
tbl_biodata.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tbl_biodataMouseClicked(evt);
    }
});
jScrollPane2.setViewportViewView(tbl_biodata);

```



```

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(442, 442, 442)
            .addComponent(jLabel1)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(23, 23, 23)
        .addComponent(btnSubmit)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(btnClear)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(btnUpdate)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(btnDelete)
    .addGap(18, 18, 18)
    .addComponent(btnExit))
        .addGroup(layout.createSequentialGroup()
            .addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jLabel4)
    .addComponent(jLabel3, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel6, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel7, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel8, javax.swing.GroupLayout.Alignment.LEADING))
            .addGap(42, 42, 42)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(tfNama, javax.swing.GroupLayout.PREFERRED_SIZE,
234, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
    .addComponent(tfNIM, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(tfTTL, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(cmbProdi,
javax.swing.GroupLayout.Alignment.LEADING, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addComponent(tfNomorTelepon,
javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
        .addComponent(rbLaki)

```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(rbPerempuan)
    .addGap(35, 35, 35))
    .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.LEADING))))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 56,
Short.MAX_VALUE)
    .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(24, 24, 24))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())
    .addGap(36, 36, 36)
    .addComponent(jLabel1)
    .addGap(26, 26, 26)
    .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup())
    .addGap(102, 102, 102)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(tfNama, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2))
    .addGap(12, 12, 12)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(tfNIM, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(tfTTL,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(rbLaki)
        .addComponent(rbPerempuan)
        .addComponent(jLabel5))
        .addGap(35, 35, 35))

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(cmbProdi,
            javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel6)))
        .addGap(54, 54, 54))

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfNomorTelepon,
            javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel7)))
        .addGap(12, 12, 12)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jScrollPane1,
            javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel8))
        .addGap(85, 85, 85)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(btnSubmit)
        .addComponent(btnClear)
        .addComponent(btnUpdate)
        .addComponent(btnDelete)
        .addComponent(btnExit))))
        .addContainerGap(29, Short.MAX_VALUE))
    );

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

private void tfNomorTeleponActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void btnClearActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    clearForm();
}

private void btnSubmitActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    //membuat validasi form kosong
    if (tfNama.getText().equals(""))
        || tfNIM.getText().equals("")
        || tfTTL.getText().equals("")
        || tfNomorTelepon.getText().equals("")
        || taAlamat.getText().equals("")

```

```

        || buttonGroup1.isSelected(null)
        || cmbProdi.getSelectedItem().equals("-- Program Studi --")) {

JOptionPane.showMessageDialog(this, "Field harap di isi !",
    "Validasi", JOptionPane.ERROR_MESSAGE);
return;
}

try {
    String cekDB = "SELECT * FROM tbl_biodata WHERE nim = '" +
        tfNIM.getText() + "'";
    rs = st.executeQuery(cekDB);
    if (rs.next()) {
        JOptionPane.showMessageDialog(null, "NIM sudah tersedia !");
    } else {
        st = conn.createStatement();
        String jekel;
        if (rbLaki.isSelected()) {
            jekel = "Laki - Laki";
        } else {
            jekel = "Perempuan";
        }

        //aksi simpan data (Submit/Save/Add)
        String sql = "INSERT INTO tbl_biodata (nama, nim, ttl, jekel, prodi, notelp, alamat)
VALUES ("
            + tfNama.getText()
            + ", " + tfNIM.getText()
            + ", " + tfTTL.getText()
            + ", " + jekel
            + ", " + cmbProdi.getSelectedItem()
            + ", " + tfNomorTelepon.getText()
            + ", " + taAlamat.getText()
            + ") ";

        st.executeUpdate(sql);
        JOptionPane.showMessageDialog(null, "Data berhasil di simpan");
        tampilData();
        clearForm();
    }
} catch (Exception e) {
    JOptionPane.showMessageDialog(this, e.getMessage());
}
}

private void btnDeleteActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    hapusData();
}

private void tbl_biodataMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    int row = tbl_biodata.getSelectedRow();
    if (tbl_biodata.getValueAt(row, 4).equals("Laki-laki")) {

```

```

        rbLaki.setSelected(true);
    } else if (tbl_biadata.getValueAt(row, 4).equals("Perempuan")) {
        rbPerempuan.setSelected(true);
    }
    tfNama.setText(tbl_biadata.getValueAt(row, 1).toString());
    tfNIM.setText(tbl_biadata.getValueAt(row, 2).toString());
    tfTTL.setText(tbl_biadata.getValueAt(row, 3).toString());
    cmbProdi.setSelectedItem(tbl_biadata.getValueAt(row, 5).toString());
    tfNomorTelepon.setText(tbl_biadata.getValueAt(row, 6).toString());
    taAlamat.setText(tbl_biadata.getValueAt(row, 7).toString());
}

private void btnExitActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int jawab = JOptionPane.showOptionDialog(this,
        "Apakah Anda Ingin Keluar?",
        "Exit",
        JOptionPane.YES_NO_OPTION,
        JOptionPane.QUESTION_MESSAGE, null, null, null);
    if (jawab == JOptionPane.YES_OPTION) {
        System.exit(0);
    }
}

private void btnUpdateActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
    // Membuat validasi form kosong
    if (tfNama.getText().equals(""))
        || tfNIM.getText().equals("")
        || tfTTL.getText().equals("")
        || tfNomorTelepon.getText().equals("")
        || taAlamat.getText().equals("")
        || buttonGroup1.isSelected(null)
        || cmbProdi.getSelectedItem().equals("-- Program Studi --")) {

        JOptionPane.showMessageDialog(this, "Field harap di isi !",
            "Validasi", JOptionPane.ERROR_MESSAGE);
        return;
    }

    try {
        String cekDB = "SELECT * FROM tbl_biadata WHERE nim = " + tfNIM.getText() + "
";
        rs = st.executeQuery(cekDB);
        if (!rs.next()) {
            JOptionPane.showMessageDialog(null, "NIM tidak ditemukan, tidak dapat mengupdate
data!");
        } else {
            String jekel;
            if (rbLaki.isSelected()) {
                jekel = "Laki - Laki";
            } else {
                jekel = "Perempuan";
            }
        }
    }
}

```

```

// Aksi update data
String sql = "UPDATE tbl_biodata SET "
    + "nama = '" + tfNama.getText() + "', "
    + "ttl = '" + tfTTL.getText() + "', "
    + "jkel = '" + jkel + "', "
    + "prodi = '" + cmbProdi.getSelectedItem() + "', "
    + "notelp = '" + tfNomorTelepon.getText() + "', "
    + "alamat = '" + taAlamat.getText() + "' "
    + "WHERE nim = '" + tfNIM.getText() + "'";

st.executeUpdate(sql);
JOptionPane.showMessageDialog(null, "Data berhasil diperbarui");
tampilData();
clearForm();
}
} catch (Exception e) {
    JOptionPane.showMessageDialog(this, e.getMessage());
}

}

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton btnClear;
private javax.swing.JButton btnDelete;
private javax.swing.JButton btnExit;
private javax.swing.JButton btnSubmit;
private javax.swing.JButton btnUpdate;
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JComboBox<String> cmbProdi;
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.JLabel jLabel8;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JRadioButton rbLaki;
private javax.swing.JRadioButton rbPerempuan;
private javax.swing.JTextArea taAlamat;
private javax.swing.JTable tbl_biodata;
private javax.swing.JTextField tfNIM;
private javax.swing.JTextField tfNama;
private javax.swing.JTextField tfNomorTelepon;
private javax.swing.JTextField tfTTL;
// End of variables declaration
}

```

❖ DESAIN

Biodata

Nama Mahasiswa/i:

NIM:

Tempat dan Tgl. Lahir:

Jenis Kelamin: ☐ Laki-laki ☐ Perempuan

Prodi:

Telepon:

Alamat:

Title 1	Title 2	Title 3	Title 4

1. Koneksi

```

8      *
9      * @author Zulaeha TI.22.A.5
10     */
11     import Config.KoneksiDB;
12     import javax.swing.JOptionPane;
13     import java.sql.*;
14     import javax.swing.table.DefaultTableModel;
15     import java.awt.*;
16
17     public class FormBiodata extends JFrame {
18         private JTextField nama;
19         private JTextField nim;
20         private JTextField tempat;
21         private JTextField tanggal;
22
23         /**
24          * Creates new form FormBiodata
25          */

```

Message

Koneksi Berhasil

Form.FormBiodata
FormBiodata

2. Tambah Data

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

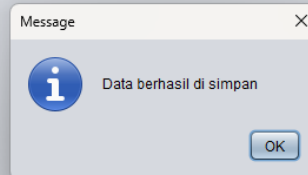
Jenis Kelamin : ☐ Laki-laki ☒ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis ...	Prodi	No. Te...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
3	Dicki	31221...	Bandu...	Laki - ...	Teknol...	08151...	Renga...
4	Saidah	31221...	Bekas...	Perem...	Bisnis...	08151...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...



Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☐ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis ...	Prodi	No. Te...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
3	Dicki	31221...	Bandu...	Laki - ...	Teknol...	08151...	Renga...
4	Saidah	31221...	Bekas...	Perem...	Bisnis...	08151...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...
6	Zulaeha	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...

3. Clear data

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☒ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis ...	Prodi	No. Te...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
3	Dicki	31221...	Bandu...	Laki - ...	Teknol...	08151...	Renga...
4	Saidah	31221...	Bekas...	Perem...	Bisnis...	08151...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...
6	Zulaeha	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☐ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis ...	Prodi	No. Te...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
3	Dicki	31221...	Bandu...	Laki - ...	Teknol...	08151...	Renga...
4	Saidah	31221...	Bekas...	Perem...	Bisnis...	08151...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...
6	Zulaeha	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...

4. Update Data

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☒ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis ...	Prodi	No. Te...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
3	Dicki	31221...	Bandu...	Laki - ...	Teknol...	08151...	Renga...
4	Saidah	31221...	Bekas...	Perem...	Bisnis...	08151...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...
6	Zulaeha	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...

Submit Clear Update Delete Exit

Message

Data berhasil diperbarui

OK

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☐ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis K...	Prodi	No. Tele...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	081513...	Perum T...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	081513...	Perum T...
3	Dicki	31221...	Bandu...	Laki - L...	Teknol...	081513...	Rengas ...
4	Saidah	31221...	Bekas...	Perem...	Bisnis ...	081513...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik ...	081513...	Cikarang
6	Zulaeha	31221...	Bekas...	Perem...	PGSD	081513...	Cikarang

Submit Clear Update Delete Exit

5. Delete data

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☒ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis K...	Prodi	No. Tele...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	081513...	Perum T...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	081513...	Perum T...
3	Dicki	31221...	Bandu...	Laki - L...	Tekno...	081513...	Rengas ...
4	Saidah	31221...	Bekas...	Perem...	Bisnis ...	081513...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik ...	081513...	Cikarang
6	Zulaeha	31221...	Bekas...	Perem...	PGSD	081513...	Cikarang

Konfirmasi

?

Apakah Anda ingin menghapus data ini?

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☒ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis K...	Prodi	No. Tele...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	081513...	Perum T...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	081513...	Perum T...
3	Dicki	31221...	Bandu...	Laki - L...	Tekno...	081513...	Rengas ...
4	Saidah	31221...	Bekas...	Perem...	Bisnis ...	081513...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik ...	081513...	Cikarang
6	Zulaeha	31221...	Bekas...	Perem...	PGSD	081513...	Cikarang

Message

i

Data berhasil di hapus

Biodata

Nama Mahasiswa/i :

NIM :

Tempat dan Tgl. Lahir :

Jenis Kelamin : ☐ Laki-laki ☐ Perempuan

Prodi :

Telepon :

Alamat :

No.	Nama	NIM	TTL	Jenis ...	Prodi	No. Te...	Alamat
1	Tunjung	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
2	Wisnu	31221...	Pemal...	Perem...	Arsitek...	08151...	Perum...
3	Dicki	31221...	Bandu...	Laki - ...	Teknol...	08151...	Renga...
4	Saidah	31221...	Bekas...	Perem...	Bisnis...	08151...	Cibitung
5	Adiba	31221...	Bekas...	Perem...	Teknik...	08151...	Cikara...