**Laporan Praktikum Modul 4**

**Bahasa Pemograman 1**

**Dosen pengampu : Dede Husen, M.Kom.**



**Nama : Bayu Imantoro**

**NIM : 20230810089**

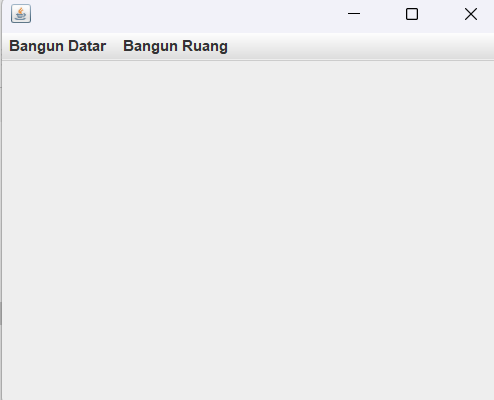
**Kelas : TINFC – 2023 – 04**

**Teknik Informatika**

**Fakultas Ilmu Komputer**

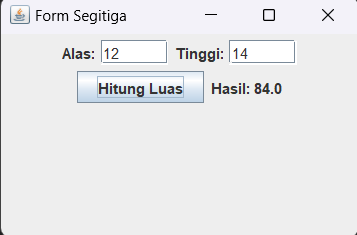
**Universitas Kuningan**

Form utama

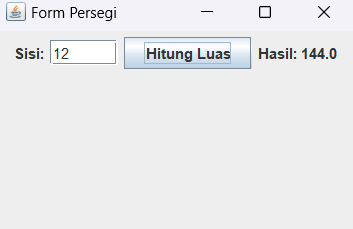


Form Bangun Datar

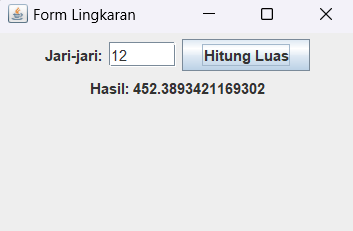
Segitiga



Persegi

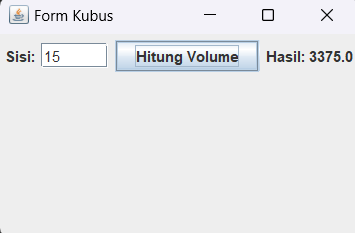


Lingkaran

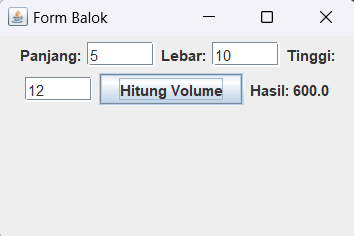


Bangun Ruang

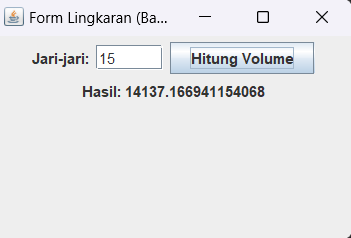
Kubus



Balok



Lingkaran



/\*

\* 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 tugas\_hybrid;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JTextField;

import java.awt.event.ActionListener;

import java.awt.event.ActionEvent;

/\*\*

\*

\* @author bayu

\*/

public class menu extends javax.swing.JFrame {

/\*\*

\* Creates new form menu

\*/

public menu() {

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() {

jMenuBar1 = new javax.swing.JMenuBar();

jMenu1 = new javax.swing.JMenu();

jMenuItem1 = new javax.swing.JMenuItem();

jMenuItem2 = new javax.swing.JMenuItem();

jMenuItem3 = new javax.swing.JMenuItem();

jMenu2 = new javax.swing.JMenu();

jMenuItem4 = new javax.swing.JMenuItem();

jMenuItem5 = new javax.swing.JMenuItem();

jMenuItem6 = new javax.swing.JMenuItem();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jMenu1.setText("Bangun Datar");

jMenuItem1.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK\_S, java.awt.event.InputEvent.ALT\_DOWN\_MASK));

jMenuItem1.setText("Segitiga");

jMenuItem1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jMenuItem1ActionPerformed(evt);

}

});

jMenu1.add(jMenuItem1);

jMenuItem2.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK\_P, java.awt.event.InputEvent.ALT\_DOWN\_MASK));

jMenuItem2.setText("Persegi");

jMenuItem2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jMenuItem2ActionPerformed(evt);

}

});

jMenu1.add(jMenuItem2);

jMenuItem3.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK\_L, java.awt.event.InputEvent.ALT\_DOWN\_MASK));

jMenuItem3.setText("Lingkaran");

jMenuItem3.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jMenuItem3ActionPerformed(evt);

}

});

jMenu1.add(jMenuItem3);

jMenuBar1.add(jMenu1);

jMenu2.setText("Bangun Ruang");

jMenuItem4.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK\_K, java.awt.event.InputEvent.ALT\_DOWN\_MASK));

jMenuItem4.setText("Kubus");

jMenuItem4.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jMenuItem4ActionPerformed(evt);

}

});

jMenu2.add(jMenuItem4);

jMenuItem5.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK\_B, java.awt.event.InputEvent.ALT\_DOWN\_MASK));

jMenuItem5.setText("Balok");

jMenuItem5.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jMenuItem5ActionPerformed(evt);

}

});

jMenu2.add(jMenuItem5);

jMenuItem6.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK\_T, java.awt.event.InputEvent.ALT\_DOWN\_MASK));

jMenuItem6.setText("Lingkaran");

jMenuItem6.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jMenuItem6ActionPerformed(evt);

}

});

jMenu2.add(jMenuItem6);

jMenuBar1.add(jMenu2);

setJMenuBar(jMenuBar1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGap(0, 400, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addGap(0, 277, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {

new FormSegitiga().setVisible(true);

}

private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {

new FormPersegi().setVisible(true);

}

private void jMenuItem3ActionPerformed(java.awt.event.ActionEvent evt) {

new FormLingkaran().setVisible(true);

}

private void jMenuItem4ActionPerformed(java.awt.event.ActionEvent evt) {

new FormKubus().setVisible(true);

}

private void jMenuItem5ActionPerformed(java.awt.event.ActionEvent evt) {

new FormBalok().setVisible(true);

}

private void jMenuItem6ActionPerformed(java.awt.event.ActionEvent evt) {

new FormLingkaranRuang().setVisible(true);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

@Override

public void run() {

new menu().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JMenu jMenu1;

private javax.swing.JMenu jMenu2;

private javax.swing.JMenuBar jMenuBar1;

private javax.swing.JMenuItem jMenuItem1;

private javax.swing.JMenuItem jMenuItem2;

private javax.swing.JMenuItem jMenuItem3;

private javax.swing.JMenuItem jMenuItem4;

private javax.swing.JMenuItem jMenuItem5;

private javax.swing.JMenuItem jMenuItem6;

// End of variables declaration

public class FormSegitiga extends JFrame {

public FormSegitiga() {

setTitle("Form Segitiga");

setSize(300, 200);

setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

setLocationRelativeTo(null);

JLabel labelBase = new JLabel("Alas:");

JLabel labelHeight = new JLabel("Tinggi:");

JTextField textBase = new JTextField(5);

JTextField textHeight = new JTextField(5);

JButton buttonCalculate = new JButton("Hitung Luas");

JLabel labelResult = new JLabel("Hasil:");

buttonCalculate.addActionListener((ActionEvent e) -> {

try {

double base1 = Double.parseDouble(textBase.getText());

double height1 = Double.parseDouble(textHeight.getText());

double area = 0.5 \* base1 \* height1;

labelResult.setText("Hasil: " + area);

}catch (NumberFormatException ex) {

JOptionPane.showMessageDialog(null, "Masukkan angka yang valid");

}

});

setLayout(new java.awt.FlowLayout());

add(labelBase);

add(textBase);

add(labelHeight);

add(textHeight);

add(buttonCalculate);

add(labelResult);

}

}

public class FormPersegi extends JFrame {

public FormPersegi() {

setTitle("Form Persegi");

setSize(300, 200);

setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

setLocationRelativeTo(null);

JLabel labelSide = new JLabel("Sisi:");

JTextField textSide = new JTextField(5);

JButton buttonCalculate = new JButton("Hitung Luas");

JLabel labelResult = new JLabel("Hasil:");

buttonCalculate.addActionListener(new ActionListener() {

@Override

public void actionPerformed (ActionEvent e) {

try {

double side = Double.parseDouble(textSide.getText());

double area = side \* side;

labelResult.setText("Hasil: " + area);

} catch (NumberFormatException ex) {

JOptionPane.showMessageDialog(null, "Masukkan angka yang valid");

}

}

});

setLayout(new java.awt.FlowLayout());

add(labelSide);

add(textSide);

add(buttonCalculate);

add(labelResult);

}

}

public class FormLingkaran extends JFrame {

public FormLingkaran() {

setTitle("Form Lingkaran");

setSize(300, 200);

setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

setLocationRelativeTo(null);

JLabel labelRadius = new JLabel("Jari-jari:");

JTextField textRadius = new JTextField(5);

JButton buttonCalculate = new JButton("Hitung Luas");

JLabel labelResult = new JLabel("Hasil:");

buttonCalculate.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

try {

double radius = Double.parseDouble(textRadius.getText());

double area = Math.PI \* radius \* radius;

labelResult.setText("Hasil: " + area);

} catch (NumberFormatException ex) {

JOptionPane.showMessageDialog(null, "Masukkan angka yang valid");

}

}

});

setLayout(new java.awt.FlowLayout());

add(labelRadius);

add(textRadius);

add(buttonCalculate);

add(labelResult);

}

}

public class FormKubus extends JFrame {

public FormKubus() {

setTitle("Form Kubus");

setSize(300, 200);

setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

setLocationRelativeTo(null);

JLabel labelSide = new JLabel("Sisi:");

JTextField textSide = new JTextField(5);

JButton buttonCalculate = new JButton("Hitung Volume");

JLabel labelResult = new JLabel("Hasil:");

buttonCalculate.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

try {

double side = Double.parseDouble(textSide.getText());

double volume = Math.pow(side, 3);

labelResult.setText("Hasil: " + volume);

} catch (NumberFormatException ex) {

JOptionPane.showMessageDialog(null, "Masukkan angka yang valid");

}

}

});

setLayout(new java.awt.FlowLayout());

add(labelSide);

add(textSide);

add(buttonCalculate);

add(labelResult);

}

}

public class FormBalok extends JFrame {

public FormBalok() {

setTitle("Form Balok");

setSize(300, 200);

setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

setLocationRelativeTo(null);

JLabel labelLength = new JLabel("Panjang:");

JLabel labelWidth = new JLabel("Lebar:");

JLabel labelHeight = new JLabel("Tinggi:");

JTextField textLength = new JTextField(5);

JTextField textWidth = new JTextField(5);

JTextField textHeight = new JTextField(5);

JButton buttonCalculate = new JButton("Hitung Volume");

JLabel labelResult = new JLabel("Hasil:");

buttonCalculate.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

try {

double length = Double.parseDouble(textLength.getText());

double width = Double.parseDouble(textWidth.getText());

double height = Double.parseDouble(textHeight.getText());

double volume = length \* width \* height;

labelResult.setText("Hasil: " + volume);

} catch (NumberFormatException ex) {

JOptionPane.showMessageDialog(null, "Masukkan angka yang valid");

}

}

});

setLayout(new java.awt.FlowLayout());

add(labelLength);

add(textLength);

add(labelWidth);

add(textWidth);

add(labelHeight);

add(textHeight);

add(buttonCalculate);

add(labelResult);

}

}

public class FormLingkaranRuang extends JFrame {

public FormLingkaranRuang() {

setTitle("Form Lingkaran (Bangun Ruang)");

setSize(300, 200);

setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);

setLocationRelativeTo(null);

JLabel labelRadius = new JLabel("Jari-jari:");

JTextField textRadius = new JTextField(5);

JButton buttonCalculate = new JButton("Hitung Volume");

JLabel labelResult = new JLabel("Hasil:");

buttonCalculate.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

try {

double radius = Double.parseDouble(textRadius.getText());

double volume = (4.0 / 3.0) \* Math.PI \* Math.pow(radius, 3);

labelResult.setText("Hasil: " + volume);

} catch (NumberFormatException ex) {

JOptionPane.showMessageDialog(null, "Masukkan angka yang valid");

}

}

});

setLayout(new java.awt.FlowLayout());

add(labelRadius);

add(textRadius);

add(buttonCalculate);

add(labelResult);

}

}

}

PRAKTIKUM

1. package BP1\_M4\_Bayu;

/\*

\* 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

\*/

import javax.swing.JOptionPane;

/\*\*

\*

\* @author bayui

\*/

public class BP1\_M4\_P1\_Bayu extends javax.swing.JFrame {

/\*\*

\* Creates new form BP1\_M4\_P1\_Bayu

\*/

public BP1\_M4\_P1\_Bayu() {

initComponents();

}

private void login(){

String user, pass;

user = jTextField1.getText();

pass = jTextField2.getText();

if(user.equals("Admin")&&pass.equals("#Admin123")){

JOptionPane.showMessageDialog(null, "Login Sukses" +user, "Login ", JOptionPane.INFORMATION\_MESSAGE);

}

else{

JOptionPane.showMessageDialog(null,"Lohin Gagal","Login", JOptionPane.ERROR\_MESSAGE);

}

}

/\*\*

\* 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")

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

button1 = new java.awt.Button();

button2 = new java.awt.Button();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 14));

jLabel1.setText("FORM LOGIN");

jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/BP1\_M4\_Bayu/bayi.jpg")));

jLabel2.setText("jLabel2");

jLabel3.setText("Username");

jLabel4.setText("Password");

button1.setLabel("LOGIN");

button1.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

button1MouseClicked(evt);

}

});

button1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

button1ActionPerformed(evt);

}

});

button2.setLabel("REGISTER");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField1ActionPerformed(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()

.addGap(20, 20, 20)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(50, 50, 50)

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

.addComponent(jLabel3)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 53, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

.addComponent(jTextField1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(105, 105, 105))

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

.addContainerGap(441, Short.MAX\_VALUE)

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

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

.addComponent(button1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27)

.addComponent(button2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(82, 82, 82))

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

.addComponent(jLabel1)

.addGap(294, 294, 294))))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(130, 130, 130)

.addComponent(jLabel2))

.addGroup(layout.createSequentialGroup()

.addGap(175, 175, 175)

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

.addComponent(jLabel3)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(139, 139, 139)

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

.addComponent(jLabel4)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(19, 19, 19)

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

.addComponent(button2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(button1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()

.addGap(27, 27, 27)

.addComponent(jLabel1)))

.addContainerGap(84, Short.MAX\_VALUE))

);

pack();

}

private void button1ActionPerformed(java.awt.event.ActionEvent evt) {

login();

}

private void button1MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

/\*\*

\* @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(BP1\_M4\_P1\_Bayu.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P1\_Bayu.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P1\_Bayu.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P1\_Bayu.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 BP1\_M4\_P1\_Bayu().setVisible(true);

}

});

}

// Variables declaration - do not modify

private java.awt.Button button1;

private java.awt.Button button2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

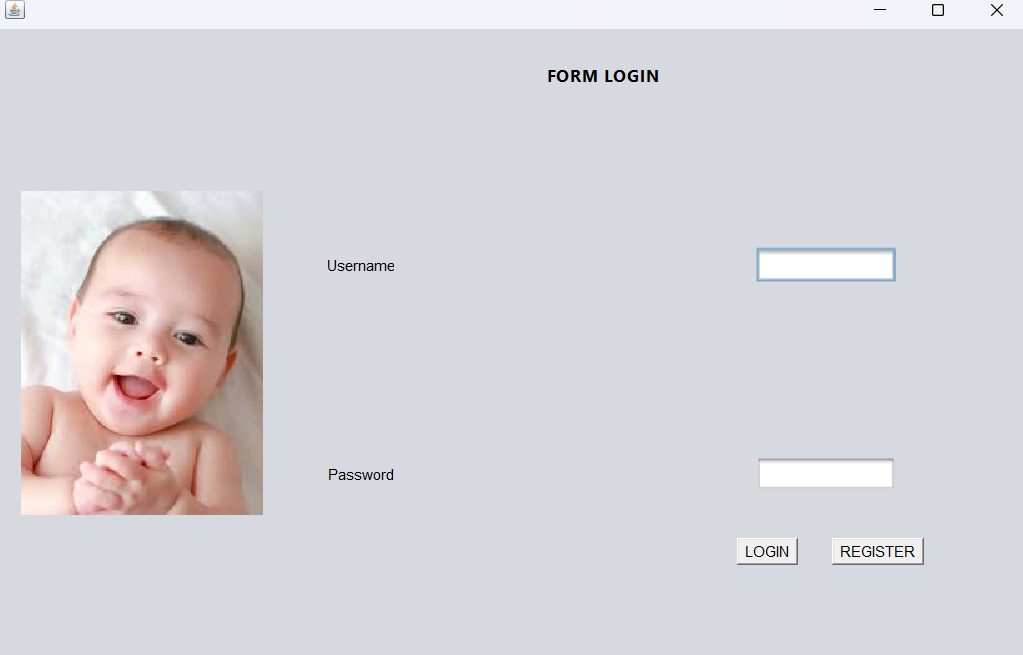
private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

}



PRETTEST

1. Apa itu swing control

Swing control adalah teknik atau strategi yang digunakan untuk mengendalikan gerakan atau pergerakan suatu objek secara tepat.

1. Apa fungsi dari swing control

Mengurangi Getaran Berlebih

Mengontrol Kecepatan dan Arah

Menghemat Energi

1. Tuliskan contoh program sederhana untuk swing control

public class SwingControl {

private double angle; // Sudut awal

private double kp = 0.1; // Konstanta proporsional

private double ki = 0.01; // Konstanta integral

private double kd = 0.05; // Konstanta derivatif

private double integral = 0;

private double previousError = 0;

public SwingControl() {

this.angle = 0; // Sudut awal 0 derajat

}

// Metode untuk menghitung sinyal kontrol PID

private double calculateControlSignal(double targetAngle) {

double error = targetAngle - angle;

integral += error;

double derivative = error - previousError;

// Rumus PID untuk sinyal kontrol

double controlSignal = (kp \* error) + (ki \* integral) + (kd \* derivative);

previousError = error;

return controlSignal;

}

// Metode untuk menggerakkan sudut menuju target

public void moveToTargetAngle(double targetAngle) {

while (Math.abs(targetAngle - angle) > 0.01) {

// Hitung sinyal kontrol dari PID

double controlSignal = calculateControlSignal(targetAngle);

// Tambahkan sinyal kontrol ke sudut saat ini

angle += controlSignal;

// Cetak status sudut

System.out.printf("Current Angle: %.2f degrees%n", angle);

// Simulasi jeda waktu (100 ms) agar tampilan berubah bertahap

try {

Thread.sleep(100);

} catch (InterruptedException e) {

e.printStackTrace();

}

}

System.out.println("Reached target angle: " + targetAngle);

}

public static void main(String[] args) {

SwingControl swingControl = new SwingControl();

double targetAngle = 30.0; // Sudut target yang ingin dicapai

System.out.println("Moving towards target angle: " + targetAngle + " degrees");

swingControl.moveToTargetAngle(targetAngle);

}

}

POSTTEST

1. package BP1\_M4\_Bayu;

import javax.swing.JOptionPane;

public class BP1\_M4\_P1\_Bayu extends javax.swing.JFrame {

public BP1\_M4\_P1\_Bayu() {

initComponents();

}

private void login(){

String user = jTextField1.getText();

String pass = jTextField2.getText();

if (user.isEmpty()) {

JOptionPane.showMessageDialog(null, "Username harus diisi", "Login", JOptionPane.WARNING\_MESSAGE);

} else if (pass.isEmpty()) {

JOptionPane.showMessageDialog(null, "Password harus diisi", "Login", JOptionPane.WARNING\_MESSAGE);

} else if (user.equals("Admin") && pass.equals("#Admin123")) {

JOptionPane.showMessageDialog(null, "Login Sukses " + user, "Login", JOptionPane.INFORMATION\_MESSAGE);

} else if (!user.equals("Admin")) {

JOptionPane.showMessageDialog(null, "Username salah", "Login", JOptionPane.ERROR\_MESSAGE);

} else {

JOptionPane.showMessageDialog(null, "Password salah", "Login", JOptionPane.ERROR\_MESSAGE);

}

}

@SuppressWarnings("unchecked")

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

button1 = new java.awt.Button();

button2 = new java.awt.Button();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 14));

jLabel1.setText("FORM LOGIN");

jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/BP1\_M4\_Bayu/bayi.jpg")));

jLabel2.setText("jLabel2");

jLabel3.setText("Username");

jLabel4.setText("Password");

button1.setLabel("LOGIN");

button1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

login();

}

});

button2.setLabel("REGISTER");

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()

.addGap(20, 20, 20)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(50, 50, 50)

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

.addComponent(jLabel3)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 53, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(50, 50, 50)

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

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(105, 105, 105))

.addGroup(layout.createSequentialGroup()

.addGap(441, 441, 441)

.addComponent(button1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27)

.addComponent(button2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(82, 82, 82))

.addGroup(layout.createSequentialGroup()

.addGap(294, 294, 294)

.addComponent(jLabel1))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(27, 27, 27)

.addComponent(jLabel1)

.addGap(80, 80, 80)

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

.addComponent(jLabel2)

.addGroup(layout.createSequentialGroup()

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

.addComponent(jLabel3)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(139, 139, 139)

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

.addComponent(jLabel4)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(19, 19, 19)

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

.addComponent(button2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(button1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(84, Short.MAX\_VALUE))

);

pack();

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new BP1\_M4\_P1\_Bayu().setVisible(true);

}

});

}

// Variables declaration - do not modify

private java.awt.Button button1;

private java.awt.Button button2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

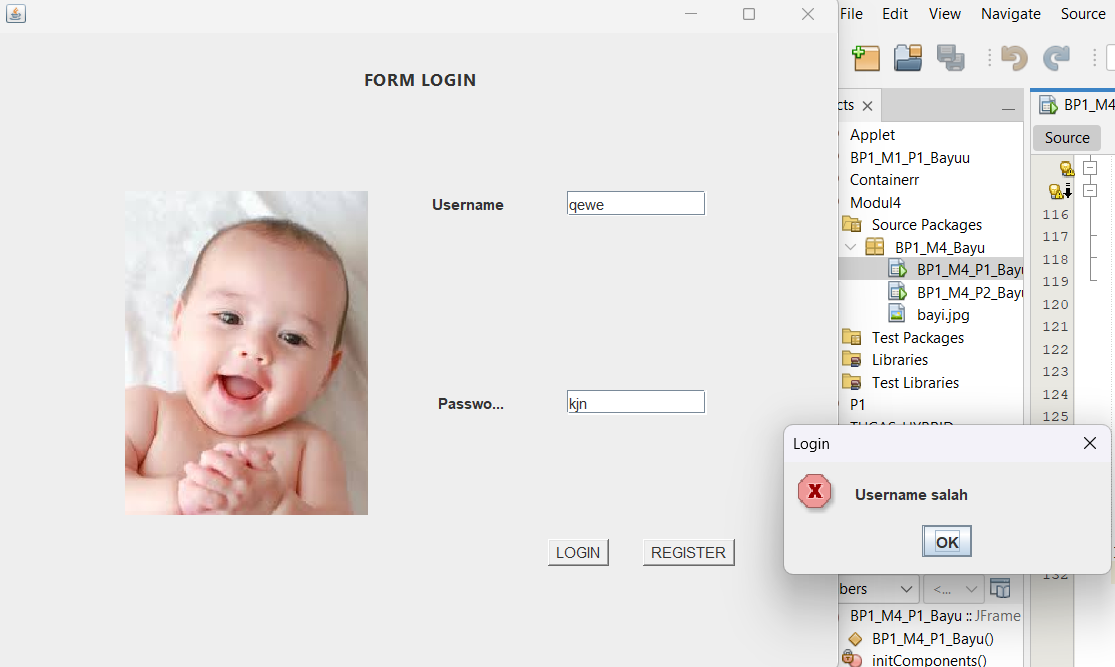
private javax.swing.JLabel jLabel3;

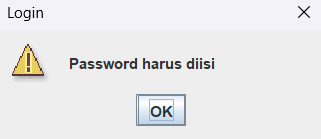
private javax.swing.JLabel jLabel4;

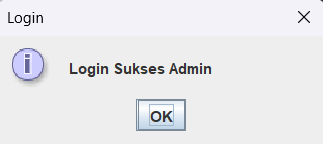
private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

}







1. package BP1\_M4\_Bayu;

import javax.swing.JOptionPane;

public class BP1\_M4\_P1\_Bayu extends javax.swing.JFrame {

public BP1\_M4\_P1\_Bayu() {

initComponents();

}

private void login(){

String user, pass, level;

user = jTextField1.getText();

pass = jTextField2.getText();

level = jComboBox1.getSelectedItem().toString(); // Mengambil nilai dari JComboBox

// Cek jika username kosong

if (user.isEmpty()) {

JOptionPane.showMessageDialog(null, "Username harus diisi", "Login", JOptionPane.WARNING\_MESSAGE);

}

// Cek jika password kosong

else if (pass.isEmpty()) {

JOptionPane.showMessageDialog(null, "Password harus diisi", "Login", JOptionPane.WARNING\_MESSAGE);

}

// Cek jika username, password, dan level sesuai

else if (user.equals("Admin") && pass.equals("#Admin123") && level.equals("admin")) {

JOptionPane.showMessageDialog(null, "Login Sukses sebagai Admin", "Login", JOptionPane.INFORMATION\_MESSAGE);

} else if (user.equals("User") && pass.equals("#User123") && level.equals("user")) {

JOptionPane.showMessageDialog(null, "Login Sukses sebagai User", "Login", JOptionPane.INFORMATION\_MESSAGE);

}

// Cek jika username salah

else if (!user.equals("Admin") && !user.equals("User")) {

JOptionPane.showMessageDialog(null, "Username salah", "Login", JOptionPane.ERROR\_MESSAGE);

}

// Cek jika password salah

else {

JOptionPane.showMessageDialog(null, "Password atau Level salah", "Login", JOptionPane.ERROR\_MESSAGE);

}

}

@SuppressWarnings("unchecked")

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(); // Label baru untuk Level

button1 = new java.awt.Button();

button2 = new java.awt.Button();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jComboBox1 = new javax.swing.JComboBox<>(); // JComboBox untuk Level

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 14));

jLabel1.setText("FORM LOGIN");

jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/BP1\_M4\_Bayu/bayi.jpg")));

jLabel2.setText("jLabel2");

jLabel3.setText("Username");

jLabel4.setText("Password");

jLabel5.setText("Level"); // Label untuk Level

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "admin", "user" })); // Tambahkan pilihan level

button1.setLabel("LOGIN");

button1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

button1ActionPerformed(evt);

}

});

button2.setLabel("REGISTER");

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()

.addGap(20, 20, 20)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(50, 50, 50)

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

.addComponent(jLabel3)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 53, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel5)) // Tambahkan label Level

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

.addComponent(jTextField1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jComboBox1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE)) // Tambahkan JComboBox untuk Level

.addGap(105, 105, 105))

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

.addContainerGap(441, Short.MAX\_VALUE)

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

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

.addComponent(button1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27)

.addComponent(button2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(82, 82, 82))

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

.addComponent(jLabel1)

.addGap(294, 294, 294))))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(130, 130, 130)

.addComponent(jLabel2))

.addGroup(layout.createSequentialGroup()

.addGap(175, 175, 175)

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

.addComponent(jLabel3)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(139, 139, 139)

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

.addComponent(jLabel4)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(30, 30, 30)

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

.addComponent(jLabel5)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))) // Tambahkan JComboBox untuk Level

.addGap(19, 19, 19)

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

.addComponent(button2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(button1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()

.addGap(27, 27, 27)

.addComponent(jLabel1)))

.addContainerGap(84, Short.MAX\_VALUE))

);

pack();

}

private void button1ActionPerformed(java.awt.event.ActionEvent evt) {

login();

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new BP1\_M4\_P1\_Bayu().setVisible(true);

}

});

}

private java.awt.Button button1;

private java.awt.Button button2;

private javax.swing.JComboBox<String> jComboBox1; // JComboBox untuk Level

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

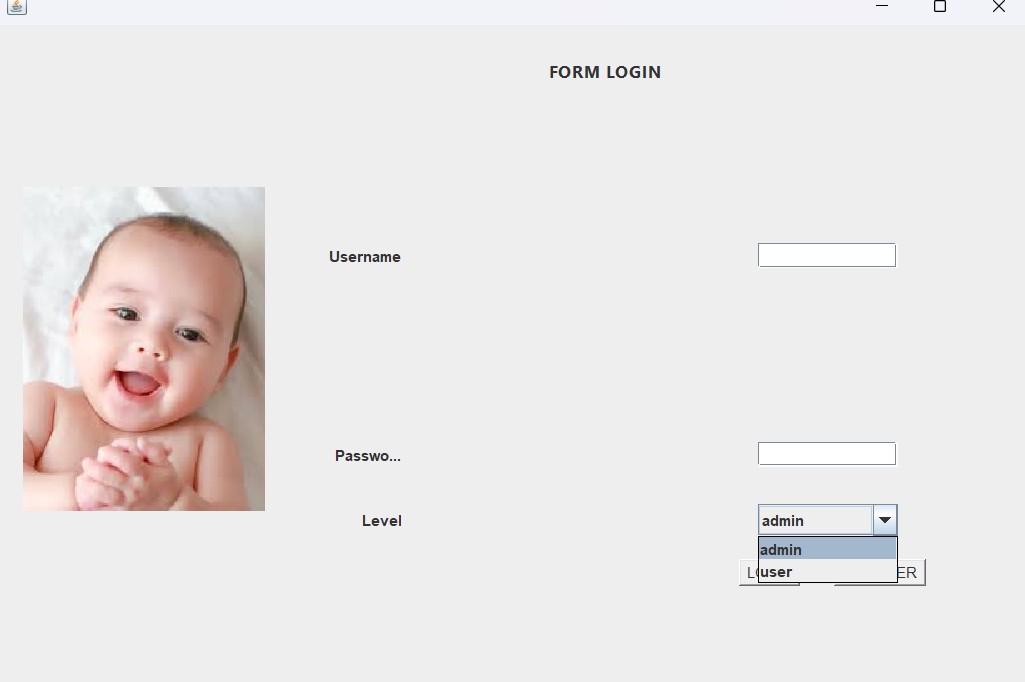
private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5; // Label untuk Level

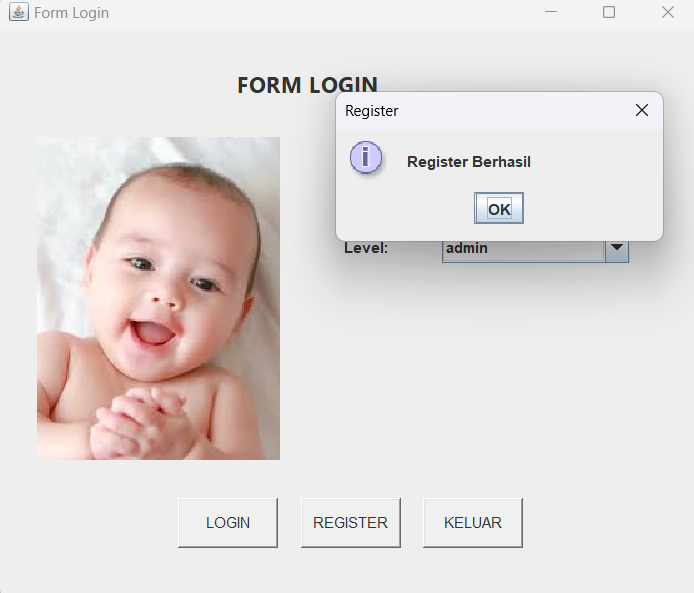
private javax.swing.JTextField jTextField1;

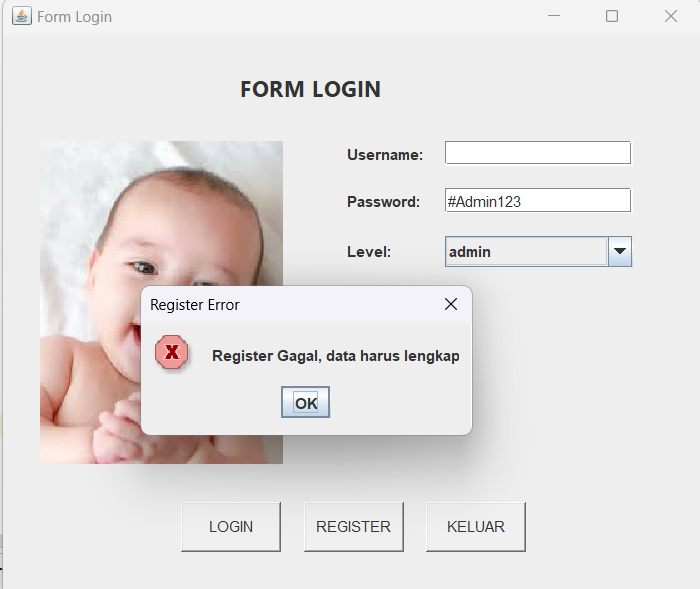
private javax.swing.JTextField jTextField2;

}



1. lengkapi kondisi Register, sehingga memiliki kondisi





package BP1\_M4\_Bayu;

import javax.swing.JOptionPane;

public class BP1\_M4\_P1\_Bayu extends javax.swing.JFrame {

    public BP1\_M4\_P1\_Bayu() {

        initComponents();

    }

    private void login() {

        String user = jTextField1.getText();

        String pass = jTextField2.getText();

        String level = jComboBox1.getSelectedItem().toString();

        if (user.isEmpty()) {

            JOptionPane.showMessageDialog(this, "Username harus diisi", "Login Error", JOptionPane.WARNING\_MESSAGE);

        } else if (pass.isEmpty()) {

            JOptionPane.showMessageDialog(this, "Password harus diisi", "Login Error", JOptionPane.WARNING\_MESSAGE);

        } else if (user.equals("Admin") && pass.equals("#Admin123") && level.equals("admin")) {

            JOptionPane.showMessageDialog(this, "Login berhasil sebagai Admin", "Login", JOptionPane.INFORMATION\_MESSAGE);

        } else if (user.equals("User") && pass.equals("#User123") && level.equals("user")) {

            JOptionPane.showMessageDialog(this, "Login berhasil sebagai User", "Login", JOptionPane.INFORMATION\_MESSAGE);

        } else {

            JOptionPane.showMessageDialog(this, "Username, Password, atau Level salah", "Login Error", JOptionPane.ERROR\_MESSAGE);

        }

    }

    private void register() {

        String user = jTextField1.getText();

        String pass = jTextField2.getText();

        String level = (String) jComboBox1.getSelectedItem();

        if (user.isEmpty() || pass.isEmpty() || level.isEmpty()) {

            JOptionPane.showMessageDialog(this, "Register Gagal, data harus lengkap", "Register Error", JOptionPane.ERROR\_MESSAGE);

        } else {

            JOptionPane.showMessageDialog(this, "Register Berhasil", "Register", JOptionPane.INFORMATION\_MESSAGE);

        }

    }

    private void clearForm() {

        jTextField1.setText("");

        jTextField2.setText("");

        jComboBox1.setSelectedIndex(0);

    }

    private void exitForm() {

        int response = JOptionPane.showConfirmDialog(this, "Yakin ingin keluar?", "Konfirmasi", JOptionPane.YES\_NO\_OPTION);

        if (response == JOptionPane.YES\_OPTION) {

            System.exit(0);

        }

    }

    @SuppressWarnings("unchecked")

    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();

        buttonLogin = new java.awt.Button();

        buttonRegister = new java.awt.Button();

        buttonExit = new java.awt.Button();

        jTextField1 = new javax.swing.JTextField();

        jTextField2 = new javax.swing.JTextField();

        jComboBox1 = new javax.swing.JComboBox<>();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

        setTitle("Form Login");

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 18));

        jLabel1.setText("FORM LOGIN");

        try {

            jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/BP1\_M4\_Bayu/bayi.jpg")));

        } catch (Exception e) {

            jLabel2.setText("Image not found");

        }

        jLabel3.setText("Username:");

        jLabel4.setText("Password:");

        jLabel5.setText("Level:");

        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[]{"admin", "user"}));

        buttonLogin.setLabel("LOGIN");

        buttonLogin.addActionListener(evt -> login());

        buttonRegister.setLabel("REGISTER");

        buttonRegister.addActionListener(evt -> register());

        buttonExit.setLabel("KELUAR");

        buttonExit.addActionListener(evt -> exitForm());

        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(30, 30, 30)

                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(50, 50, 50)

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

                    .addComponent(jLabel3)

                    .addComponent(jLabel4)

                    .addComponent(jLabel5))

                .addGap(18, 18, 18)

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

                    .addComponent(jTextField1)

                    .addComponent(jTextField2)

                    .addComponent(jComboBox1, 0, 150, Short.MAX\_VALUE))

                .addContainerGap(55, Short.MAX\_VALUE))

            .addGroup(layout.createSequentialGroup()

                .addGap(190, 190, 190)

                .addComponent(jLabel1)

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

                .addGap(0, 140, Short.MAX\_VALUE)

                .addComponent(buttonLogin, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(18, 18, 18)

                .addComponent(buttonRegister, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(18, 18, 18)

                .addComponent(buttonExit, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(140, 140, 140))

        );

        layout.setVerticalGroup(

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

            .addGroup(layout.createSequentialGroup()

                .addGap(30, 30, 30)

                .addComponent(jLabel1)

                .addGap(30, 30, 30)

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

                    .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                    .addGroup(layout.createSequentialGroup()

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

                            .addComponent(jLabel3)

                            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

                        .addGap(18, 18, 18)

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

                            .addComponent(jLabel4)

                            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

                        .addGap(18, 18, 18)

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

                            .addComponent(jLabel5)

                            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))))

                .addGap(30, 30, 30)

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

                    .addComponent(buttonLogin, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)

                    .addComponent(buttonRegister, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)

                    .addComponent(buttonExit, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE))

                .addContainerGap(40, Short.MAX\_VALUE))

        );

        pack();

        setLocationRelativeTo(null);

    }

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(() -> new BP1\_M4\_P1\_Bayu().setVisible(true));

    }

    private java.awt.Button buttonLogin;

    private java.awt.Button buttonRegister;

    private java.awt.Button buttonExit;

    private javax.swing.JComboBox<String> jComboBox1;

    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;

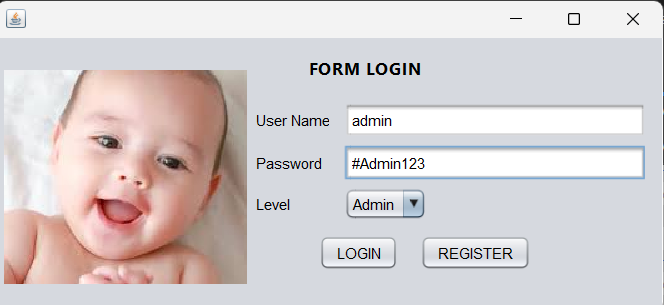
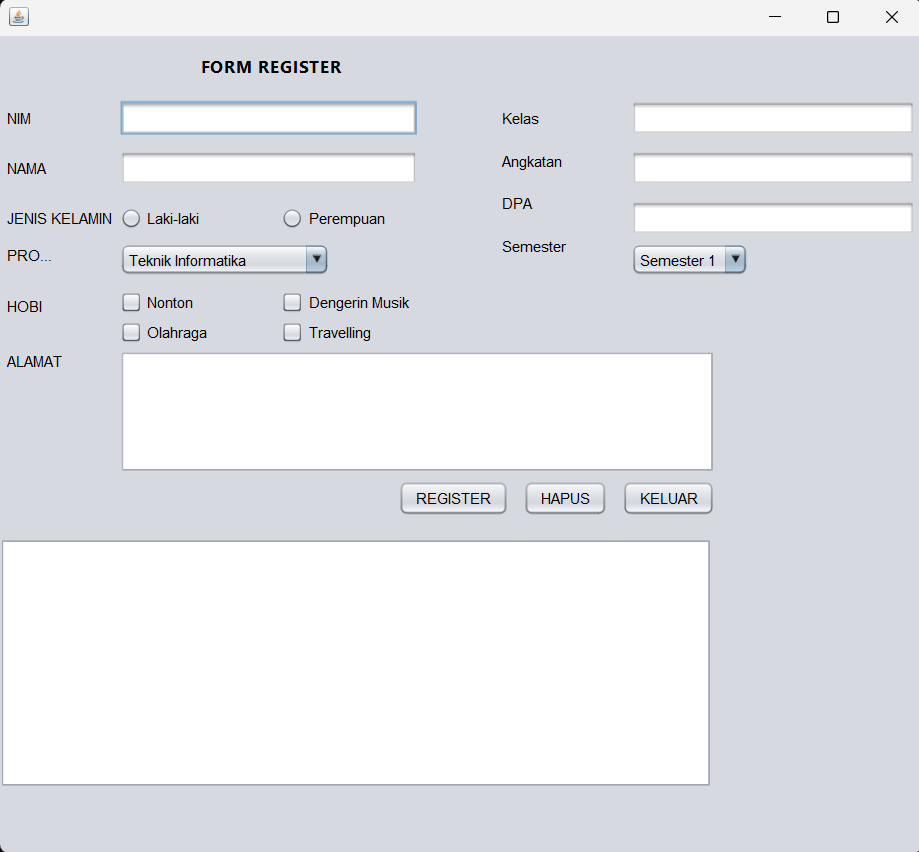
    private javax.swing.JTextField jTextField1;

    private javax.swing.JTextField jTextField2;

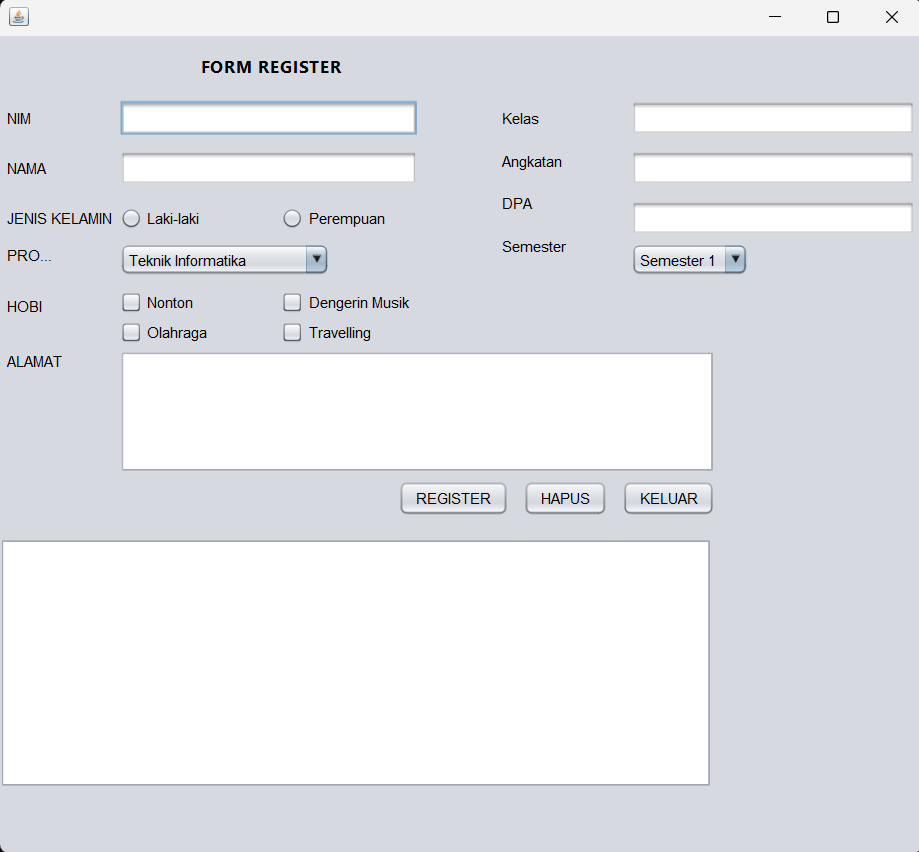
}

TUGAS

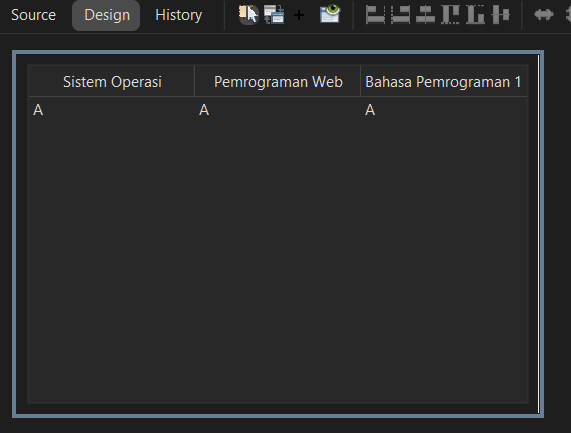
1. lengkapi/koneksikan pada form login jika di klik maka akan tampil form register

* 
* 

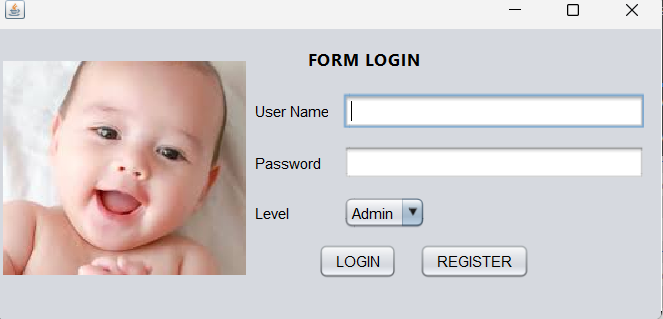
1. tambahkan data yang harus di isi pada form register (kelas, angkatan, DPA, semester)

* 

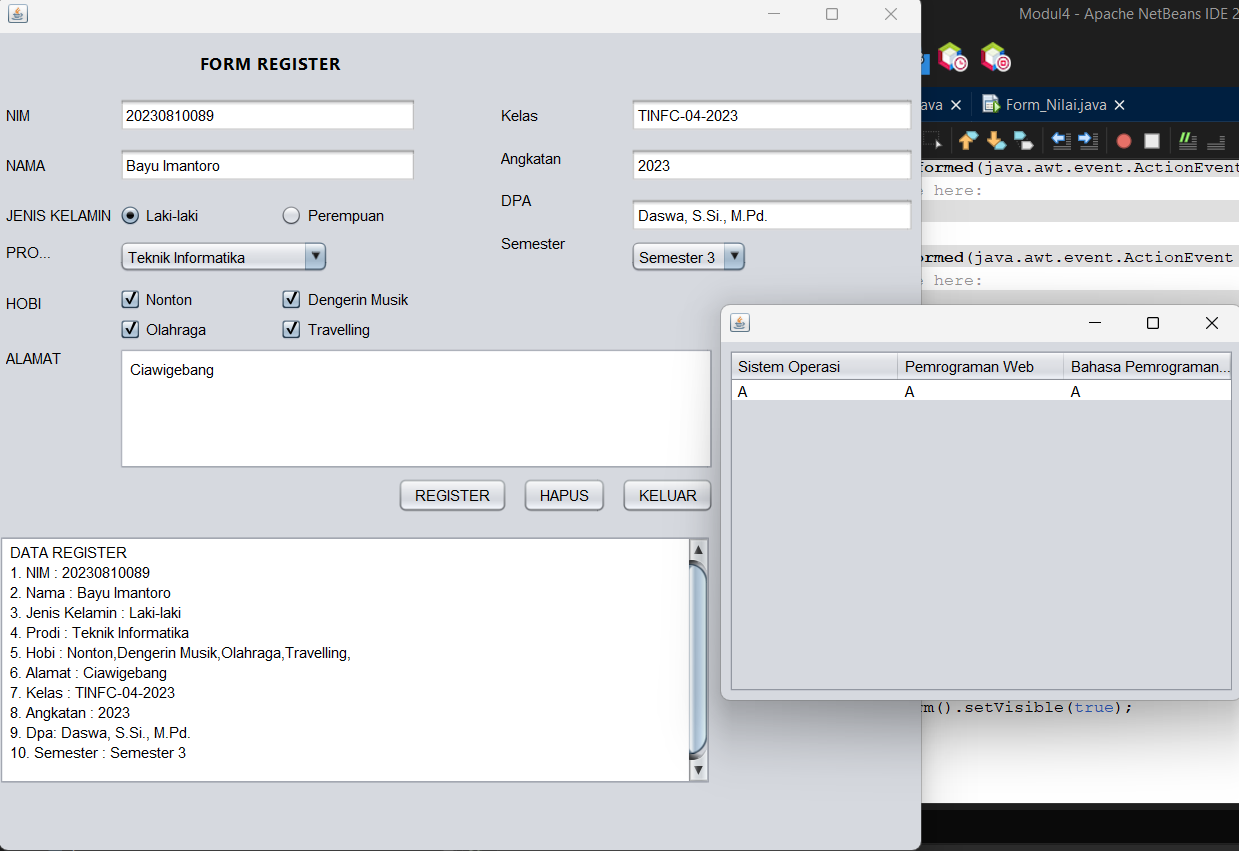
1. Buat form data nilai mahasiswa

* 

1. Jika registrasi gagal, maka tampilan akan kembali ke form login

* 

1. Jika register berhasil, maka akan tampi form data nilai mahasiswa

* 
* Form login

/\*

\* 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 BP1\_M4\_Bayu;

import javax.swing.JOptionPane;

/\*\*

\*

\* @author LOQ

\*/

public class BP1\_M4\_P1\_Bayu\_Form extends javax.swing.JFrame {

/\*\*

\* Creates new form BP1\_M4\_P1\_Bayu\_Form

\*/

public BP1\_M4\_P1\_Bayu\_Form() {

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() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jLabel5 = new javax.swing.JLabel();

jComboBox1 = new javax.swing.JComboBox<>();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N

jLabel1.setText("FORM LOGIN");

jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/BP1\_M4\_Bayu/bayi.jpg"))); // NOI18N

jLabel2.setText("jLabel2");

jLabel2.setMaximumSize(new java.awt.Dimension(150, 150));

jLabel2.setMinimumSize(new java.awt.Dimension(150, 150));

jLabel2.setPreferredSize(new java.awt.Dimension(150, 150));

jLabel3.setText("User Name");

jLabel4.setText("Password");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField1ActionPerformed(evt);

}

});

jButton1.setText("LOGIN");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("REGISTER");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jLabel5.setText("Level");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Admin", "User" }));

jComboBox1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jComboBox1ActionPerformed(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()

.addContainerGap()

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 195, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(jLabel3)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 58, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

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

.addComponent(jTextField2)

.addGroup(layout.createSequentialGroup()

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 175, Short.MAX\_VALUE))

.addComponent(jTextField1)))

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

.addGap(51, 51, 51)

.addComponent(jButton1)

.addGap(18, 18, 18)

.addComponent(jButton2)

.addGap(0, 0, Short.MAX\_VALUE)))

.addGap(14, 14, 14))

.addGroup(layout.createSequentialGroup()

.addGap(43, 43, 43)

.addComponent(jLabel1)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(14, 14, 14)

.addComponent(jLabel1)

.addGap(18, 18, 18)

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

.addComponent(jLabel3)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

.addComponent(jLabel4)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

.addComponent(jLabel5)

.addComponent(jComboBox1, 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(jButton1)

.addComponent(jButton2))

.addGap(33, 33, 33))

.addGroup(layout.createSequentialGroup()

.addGap(26, 26, 26)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 171, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

login();

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

BP1\_M4\_P2\_Bayu\_Register reg = new BP1\_M4\_P2\_Bayu\_Register();

reg.setVisible(true);

this.setVisible(false);

}

/\*\*

\* @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(BP1\_M4\_P1\_Albar.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P1\_Albar.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P1\_Albar.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P1\_Albar.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 BP1\_M4\_P1\_Bayu\_Form().setVisible(true);

}

});

}

private void login(){

String user, pass;

user = jTextField1.getText();

pass = jTextField2.getText();

if (user.isEmpty()) {

JOptionPane.showMessageDialog(null, "Username harus diisi!", "Error", JOptionPane.ERROR\_MESSAGE);

} else if (!user.equals("Admin")) {

JOptionPane.showMessageDialog(null, "Username salah!", "Error", JOptionPane.ERROR\_MESSAGE);

} else if (pass.isEmpty()) {

JOptionPane.showMessageDialog(null, "Password harus diisi!", "Error", JOptionPane.ERROR\_MESSAGE);

} else if (user.equals("Admin") && pass.equals("#Admin123")) {

JOptionPane.showMessageDialog(null, "Login Sukses " + user, "Login", JOptionPane.INFORMATION\_MESSAGE);

} else {

JOptionPane.showMessageDialog(null, "Login Gagal!", "Login", JOptionPane.ERROR\_MESSAGE);

}

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JComboBox<String> jComboBox1;

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.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

// End of variables declaration

}

* Form register

/\*

\* 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 BP1\_M4\_Bayu;

import javax.swing.JOptionPane;

/\*\*

\*

\* @author LOQ

\*/

public class BP1\_M4\_P2\_Bayu\_Register extends javax.swing.JFrame {

/\*\*

\* Creates new form BP1\_M4\_P2\_Bayu\_Register

\*/

public BP1\_M4\_P2\_Bayu\_Register() {

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() {

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();

jTextField1 = new javax.swing.JTextField();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jComboBox1 = new javax.swing.JComboBox<>();

jCheckBox1 = new javax.swing.JCheckBox();

jCheckBox2 = new javax.swing.JCheckBox();

jCheckBox3 = new javax.swing.JCheckBox();

jCheckBox4 = new javax.swing.JCheckBox();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

jScrollPane2 = new javax.swing.JScrollPane();

jTextArea2 = new javax.swing.JTextArea();

jButton1 = new javax.swing.JButton();

jLabel7 = new javax.swing.JLabel();

jTextField2 = new javax.swing.JTextField();

jButton2 = new javax.swing.JButton();

jLabel8 = new javax.swing.JLabel();

jLabel9 = new javax.swing.JLabel();

jLabel10 = new javax.swing.JLabel();

jLabel11 = new javax.swing.JLabel();

jTextField3 = new javax.swing.JTextField();

jTextField4 = new javax.swing.JTextField();

jTextField5 = new javax.swing.JTextField();

jComboBox2 = new javax.swing.JComboBox<>();

jButton3 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N

jLabel1.setText("FORM REGISTER");

jLabel2.setText("NIM");

jLabel3.setText("NAMA");

jLabel4.setText("JENIS KELAMIN");

jLabel5.setText("PRODI");

jLabel6.setText("HOBI");

jRadioButton1.setText("Perempuan");

jRadioButton2.setText("Laki-laki");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Teknik Informatika", "Sistem Informasi", "Desain Komunikasi Visual", "Teknik Sipil" }));

jCheckBox1.setText("Nonton");

jCheckBox2.setText("Dengerin Musik");

jCheckBox3.setText("Olahraga");

jCheckBox4.setText("Travelling");

jTextArea1.setColumns(20);

jTextArea1.setRows(5);

jScrollPane1.setViewportView(jTextArea1);

jTextArea2.setColumns(20);

jTextArea2.setRows(5);

jScrollPane2.setViewportView(jTextArea2);

jButton1.setText("REGISTER");

jButton1.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

jButton1MouseClicked(evt);

}

});

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jLabel7.setText("ALAMAT");

jButton2.setText("HAPUS");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jLabel8.setText("Kelas");

jLabel9.setText("Angkatan");

jLabel10.setText("DPA");

jLabel11.setText("Semester");

jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Semester 1", "Semester 2", "Semester 3", "Semester 4", "Semester 5", "Semester 6", "Semester 7" }));

jButton3.setText("KELUAR");

jButton3.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton3ActionPerformed(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()

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

.addGroup(layout.createSequentialGroup()

.addContainerGap()

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel4)

.addComponent(jLabel7))

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

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField2)

.addComponent(jTextField1)

.addGroup(layout.createSequentialGroup()

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

.addComponent(jCheckBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jCheckBox3, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jRadioButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 98, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(31, 31, 31)

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

.addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 98, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jCheckBox4, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jCheckBox2, javax.swing.GroupLayout.DEFAULT\_SIZE, 109, Short.MAX\_VALUE))))

.addGap(68, 68, 68)

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

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

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

.addComponent(jLabel11, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel10, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(47, 47, 47))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel9))

.addGap(53, 53, 53)))

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

.addComponent(jTextField4)

.addComponent(jTextField5)

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

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 227, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, Short.MAX\_VALUE))))

.addGroup(layout.createSequentialGroup()

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

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

.addComponent(jButton1)

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

.addComponent(jButton2)

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

.addComponent(jButton3))

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 476, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(0, 0, Short.MAX\_VALUE))))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(161, 161, 161)

.addComponent(jLabel1))

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, 570, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(0, 160, Short.MAX\_VALUE)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(14, 14, 14)

.addComponent(jLabel1)

.addGap(18, 18, 18)

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(jLabel2)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel8))

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

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

.addComponent(jLabel3)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField4, 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(jRadioButton1)

.addComponent(jRadioButton2)

.addComponent(jTextField5, 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()

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

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel5)

.addGap(25, 25, 25)

.addComponent(jLabel6)

.addGap(22, 22, 22))

.addGroup(layout.createSequentialGroup()

.addComponent(jComboBox1, 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(jCheckBox1)

.addComponent(jCheckBox2))

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

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

.addComponent(jCheckBox3)

.addComponent(jCheckBox4)))))

.addGroup(layout.createSequentialGroup()

.addGap(6, 6, 6)

.addComponent(jComboBox2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.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(jLabel7))

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

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

.addComponent(jButton1)

.addComponent(jButton2)

.addComponent(jButton3))

.addGap(18, 18, 18)

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, 200, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(52, 52, 52))

.addGroup(layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(jLabel9)

.addGap(18, 18, 18)

.addComponent(jLabel10)

.addGap(18, 18, 18)

.addComponent(jLabel11)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

simpan();

}

private void jButton1MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextArea1.setText("");

jTextArea2.setText("");

jRadioButton1.setSelected(false);

jRadioButton2.setSelected(false);

jComboBox1.setSelectedIndex(0);

jCheckBox1.setSelected(false);

jCheckBox2.setSelected(false);

jCheckBox3.setSelected(false);

jCheckBox4.setSelected(false);

jTextArea1.setText("");

jTextArea2.setText("");

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

BP1\_M4\_P1\_Bayu\_Form log = new BP1\_M4\_P1\_Bayu\_Form();

log.setVisible(true);

this.dispose();

}

/\*\*

\* @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(BP1\_M4\_P2\_Albar\_Register.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P2\_Albar\_Register.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P2\_Albar\_Register.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1\_M4\_P2\_Albar\_Register.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 BP1\_M4\_P2\_Bayu\_Register().setVisible(true);

}

});

}

public void simpan() {

String nim, nama, jk, prodi, alamat, kelas, angkatan, dpa, semester;

nim = jTextField1.getText();

nama = jTextField2.getText();

kelas = jTextField3.getText();

angkatan = jTextField4.getText();

dpa = jTextField5.getText();

jk = "";

if (jRadioButton1.isSelected()) {

jk = jRadioButton1.getText();

} else if (jRadioButton2.isSelected()) {

jk = jRadioButton2.getText();

}

prodi = (String) jComboBox1.getSelectedItem();

StringBuffer hobi = new StringBuffer();

if (jCheckBox1.isSelected()) {

hobi.append(jCheckBox1.getText() + ",");

}

if (jCheckBox2.isSelected()) {

hobi.append(jCheckBox2.getText() + ",");

}

if (jCheckBox3.isSelected()) {

hobi.append(jCheckBox3.getText() + ",");

}

if (jCheckBox4.isSelected()) {

hobi.append(jCheckBox4.getText() + ",");

}

semester = (String) jComboBox2.getSelectedItem();

alamat=jTextArea1.getText();

jTextArea2.setText("DATA REGISTER \n"

+ "1. NIM : "+nim+"\n"

+ "2. Nama : "+nama+"\n"

+ "3. Jenis Kelamin : "+jk+"\n"

+ "4. Prodi : "+prodi+"\n"

+ "5. Hobi : "+hobi+"\n"

+ "6. Alamat : "+alamat+"\n"

+ "7. Kelas : "+kelas+"\n"

+ "8. Angkatan : "+angkatan+"\n"

+ "9. Dpa: "+dpa+"\n"

+ "10. Semester : "+semester+"\n");

JOptionPane.showMessageDialog(this, "Registrasi Berhasil", "Sukses", JOptionPane.INFORMATION\_MESSAGE);

Form\_Nilai nilai = new Form\_Nilai();

nilai.setVisible(true);

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JCheckBox jCheckBox1;

private javax.swing.JCheckBox jCheckBox2;

private javax.swing.JCheckBox jCheckBox3;

private javax.swing.JCheckBox jCheckBox4;

private javax.swing.JComboBox<String> jComboBox1;

private javax.swing.JComboBox<String> jComboBox2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel10;

private javax.swing.JLabel jLabel11;

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.JLabel jLabel9;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JTextArea jTextArea1;

private javax.swing.JTextArea jTextArea2;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

private javax.swing.JTextField jTextField3;

private javax.swing.JTextField jTextField4;

private javax.swing.JTextField jTextField5;

// End of variables declaration

}

* Form login

/\*

\* 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 BP1\_M4\_Bayu;

/\*\*

\*

\* @author LOQ

\*/

public class Form\_Nilai extends javax.swing.JFrame {

/\*\*

\* Creates new form Form\_Nilai

\*/

public Form\_Nilai() {

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() {

jScrollPane1 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{"A", "A", "A"}

},

new String [] {

"Sistem Operasi", "Pemrograman Web", "Bahasa Pemrograman 1"

}

));

jTable1.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

jTable1MouseClicked(evt);

}

});

jScrollPane1.setViewportView(jTable1);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 405, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 275, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

}

/\*\*

\* @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(Form\_Nilai.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Form\_Nilai.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Form\_Nilai.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Form\_Nilai.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 Form\_Nilai().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTable1;

// End of variables declaration

}