

LEMBAR JAWABAN TUGAS

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FormPage

```
package com.ibik.pbo.praktikum;

import java.awt.Font;
import java.awt.BorderLayout;
import java.awt.FlowLayout;
import java.awt.Dimension;

import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JMenuItem;
import javax.swing.JPanel;
import javax.swing.JRadioButton;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.WindowConstants;
import javax.swing.border.Border;

public class FormPage extends JFrame {
    /**
     *
     */
    private static final long serialVersionUID = 1L;

    FormPage() {
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(1000, 480);
        setTitle("Form");
        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        GenerateUI(this);
    }

    public static void main(String[] args) {
        new FormPage();
    }

    private void GenerateUI(FormPage frame) {
        // Menu
        JMenuBar menuBar = new JMenuBar();
        JMenu fileMenu = new JMenu("File");
        JMenu editMenu = new JMenu("Edit");
```

```
JMenu helpMenu = new JMenu("Help");

menuBar.add(fileMenu);
menuBar.add(editMenu);
menuBar.add(helpMenu);

JMenuItem item1 = new JMenuItem("New");
JMenuItem item2 = new JMenuItem("Save");
JMenuItem item3 = new JMenuItem("Exit");

fileMenu.add(item1);
fileMenu.add(item2);
fileMenu.add(item3);

frame.setJMenuBar(menuBar);

// Main Panel
JPanel mainPanel = new JPanel();
mainPanel.setLayout(new BorderLayout());
frame.setContentPane(mainPanel);

// Header Title
JPanel headerPanel = new JPanel();
headerPanel.setLayout(new FlowLayout(FlowLayout.CENTER));
mainPanel.add(headerPanel, BorderLayout.NORTH);
JLabel headerTitle = new JLabel("FORM PENILAIAN MATAKULIAH PBO");
headerTitle.setFont(new Font("Arial", Font.PLAIN, 30));
headerPanel.add(headerTitle);

// Start of Form
Border leftPanelBorder = BorderFactory.createTitledBorder("Input
Data Mahasiswa");
JPanel leftPanel = new JPanel();
leftPanel.setLayout(null);
leftPanel.setPreferredSize(new Dimension(480, 480));
mainPanel.add(leftPanel, BorderLayout.WEST);
// Start of Panel Content

// // Input NPM
JLabel npmLabel = new JLabel("NPM");
npmLabel.setBounds(22, 40, 80, 30);
leftPanel.add(npmLabel);

JTextField inputNPM = new JTextField();
inputNPM.setBounds(22, 80, 400, 30);
leftPanel.add(inputNPM);

// // Input Nama
JLabel namaLabel = new JLabel("Nama");
namaLabel.setBounds(22, 120, 80, 30);
leftPanel.add(namaLabel);

JTextField inputNama = new JTextField();
inputNama.setBounds(22, 160, 400, 30);
leftPanel.add(inputNama);

// // Input Nilai
JLabel gradeLabel = new JLabel("Nilai");
gradeLabel.setBounds(22, 200, 80, 30);
```

```
leftPanel.add(gradeLabel);

JRadioButton gradeA = new JRadioButton("A");
gradeA.setBounds(25, 240, 50, 30);
leftPanel.add(gradeA);

JRadioButton gradeB = new JRadioButton("B");
gradeB.setBounds(100, 240, 50, 30);
leftPanel.add(gradeB);

JRadioButton gradeC = new JRadioButton("C");
gradeC.setBounds(175, 240, 50, 30);
leftPanel.add(gradeC);

JRadioButton gradeD = new JRadioButton("D");
gradeD.setBounds(250, 240, 50, 30);
leftPanel.add(gradeD);

JRadioButton gradeE = new JRadioButton("E");
gradeE.setBounds(325, 240, 50, 30);
leftPanel.add(gradeE);

JRadioButton gradeF = new JRadioButton("F");
gradeF.setBounds(400, 240, 50, 30);
leftPanel.add(gradeF);

ButtonGroup bg = new ButtonGroup();
bg.add(gradeA);
bg.add(gradeB);
bg.add(gradeC);
bg.add(gradeD);
bg.add(gradeE);
bg.add(gradeF);

// // Button CRUD Data
JButton btnSave = new JButton("Save");
btnSave.setBounds(25, 280, 100, 30);
leftPanel.add(btnSave);

JButton btnDelete = new JButton("Delete");
btnDelete.setBounds(175, 280, 100, 30);
leftPanel.add(btnDelete);

JButton btnClear = new JButton("Clear");
btnClear.setBounds(325, 280, 100, 30);
leftPanel.add(btnClear);
// End of Panel Content
leftPanel.setBorder(leftPanelBorder);
// End of Form

// Table
Border rPanelBorder = BorderFactory.createTitledBorder("Data
Mahasiswa");
JPanel rightPanel = new JPanel();
rightPanel.setLayout(new FlowLayout(FlowLayout.CENTER));
mainPanel.add(rightPanel, BorderLayout.EAST);

String data[][] = {
    { "212310004", "ani", "B" },
```



```
        { "212310002", "mel", "C" },
        { "212310003", "melani", "A" }
    };

    String column[] = {
        "Student ID",
        "Name",
        "Grade"
    };

    JTable jt = new JTable(data, column);
    jt.setBounds(22, 40, 480, 450);
    JScrollPane sp = new JScrollPane(jt);

    rightPanel.add(sp);

    rightPanel.setBorder(rPanelBorder);
}
}
```

Form

File Edit Help

FORM PENILAIAN MATAKULIAH PBO

Input Data Mahasiswa

NPM

Nama

Nilai

☐ A ☐ B ☐ C ☐ D ☐ E ☐ F

Data Mahasiswa

Student ID	Name	Grade
212310004	ani	B
212310002	mel	C
212310003	melani	A

Login

```
package com.ibik.pbo.praktikum;

import java.awt.BorderLayout;
import java.awt.Color;

import javax.swing.JButton;
import javax.swing.JCheckBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
import javax.swing.SwingConstants;
import javax.swing.WindowConstants;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class Login extends JFrame {
    /**
     *
     */
    private static final long serialVersionUID = 1L;

    Login() {
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(400, 400);
        setTitle("Contoh Window Frame");
        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        GenerateUI(this);
    }

    public static void main(String[] args) {
        new Login();
    }

    private void GenerateUI(Login frame) {
        JPanel mainPanel = new JPanel();
        mainPanel.setLayout(new BorderLayout());
        frame.setContentPane(mainPanel);

        JPanel panel1 = new JPanel();
        panel1.setLayout(null);
        mainPanel.add(panel1, BorderLayout.NORTH);

        JLabel lblEmail = new JLabel("Email");
        lblEmail.setBounds(22, 23, 80, 16);
        panel1.add(lblEmail);

        final JTextField textEmail = new JTextField();
        textEmail.setBounds(105, 18, 169, 30);
        panel1.add(textEmail);

        JLabel lblPassword = new JLabel("Password");
```

```
lblPassword.setBounds(22, 69, 61, 16);
panell1.add(lblPassword);

final JPasswordField textPassword = new JPasswordField();
textPassword.setBounds(105, 64, 169, 30);
panell1.add(textPassword);

JCheckBox chkRemember = new JCheckBox("Remember Account ?");
chkRemember.setBounds(105, 100, 169, 40);
panell1.add(chkRemember);

JButton btnRegister = new JButton("Register");
btnRegister.setBounds(105, 150, 83, 40);
btnRegister.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        Login regPage = new Login();
        regPage.setVisible(true);
        dispose();
    }
});
panell1.add(btnRegister);

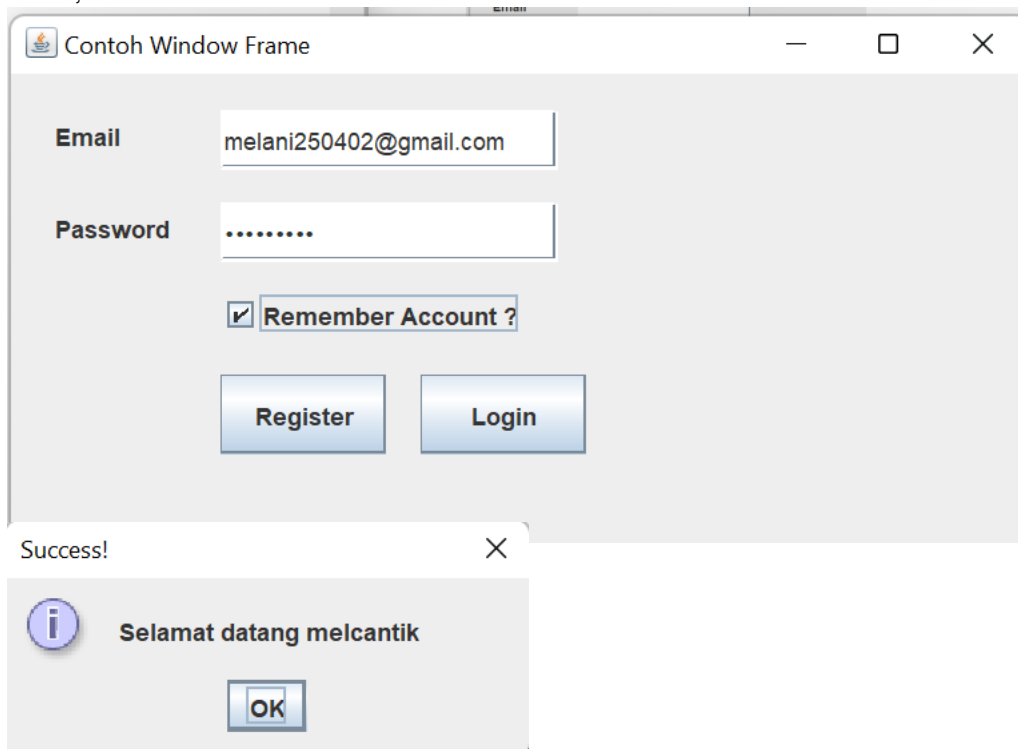
JButton btnLogin = new JButton("Login");
btnLogin.setBounds(205, 150, 83, 40);
btnLogin.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        String data[] = {
            "212310004@student.ibik.ac.id",
            "212310004",
            "MuhamadAgus"
        };

        String inputedPass = new
String(textPassword.getPassword());

        if (textEmail.getText().isEmpty() || inputedPass.isEmpty())
        {
            JOptionPane.showMessageDialog(null, "Silakan mengisi
data dengan benar", "Alert!",
JOptionPane.ERROR_MESSAGE);
        } else {
            if (!textEmail.getText().equals(data[0]) &&
!inputedPass.equals(data[1])) {
                JOptionPane.showMessageDialog(null, "Data yang anda
masukan salah!", "Alert!",
JOptionPane.ERROR_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(null, "Selamat datang
" + data[2], "Success!",
JOptionPane.INFORMATION_MESSAGE);

                FormPage formPage = new FormPage();
                formPage.setVisible(true);
                dispose();
            }
        }
    }
});
```

```
    }  
    });  
    panell1.add(btnLogin);  
  
    JLabel lblCopyright = new JLabel("copyright IBIK @ 2022",  
SwingConstants.CENTER);  
    lblCopyright.setBackground(Color.BLUE);  
    lblCopyright.setSize(300, 50);  
    mainPanel.add(lblCopyright, BorderLayout.SOUTH);  
  
    frame.add(panell1);  
}
```



Register

```
package com.ibik.pbo.praktikum;  
  
import java.awt.BorderLayout;  
  
import javax.swing.ButtonGroup;  
import javax.swing.JButton;  
import javax.swing.JComboBox;  
import javax.swing.JFrame;  
import javax.swing.JLabel;  
import javax.swing.JOptionPane;  
import javax.swing.JPanel;  
import javax.swing.JRadioButton;  
import javax.swing.JTextField;  
import javax.swing.WindowConstants;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.util.ArrayList;  
  
public class Register extends JFrame {  
    /**
```

```
*
*/
private static final long serialVersionUID = 1L;

Register() {
    setVisible(true);
    pack();
    setLocationRelativeTo(null);
    setSize(500, 500);
    setTitle("Contoh Window Frame");
    setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
    GenerateUI(this);
}

public static void main(String[] args) {
    new Register();
}

private void GenerateUI(Register frame) {
    JPanel mainPanel = new JPanel();
    mainPanel.setLayout(new BorderLayout());
    frame.setContentPane(mainPanel);

    JPanel panel1 = new JPanel();
    panel1.setLayout(null);
    mainPanel.add(panel1, BorderLayout.NORTH);

    JLabel lblFullName = new JLabel("Fullname");
    lblFullName.setBounds(22, 23, 80, 16);

    panel1.add(lblFullName);

    final JTextField textFullName = new JTextField();
    textFullName.setBounds(105, 18, 169, 30);
    textFullName.setEditable(true);
    panel1.add(textFullName);

    JLabel lblEmail = new JLabel("Email");
    lblEmail.setBounds(22, 69, 61, 16);
    panel1.add(lblEmail);

    final JTextField textEmail = new JTextField();
    textEmail.setBounds(105, 64, 169, 30);
    panel1.add(textEmail);
    JLabel lblPhone = new JLabel("Phone");
    lblPhone.setBounds(22, 109, 61, 16);
    panel1.add(lblPhone);

    final JTextField txtPhone = new JTextField();
    txtPhone.setBounds(105, 104, 169, 30);
    panel1.add(txtPhone);

    JLabel lblGender = new JLabel("Gender");
    lblGender.setBounds(22, 150, 61, 16);
    panel1.add(lblGender);

    final JRadioButton radioGender1 = new JRadioButton("Female");
    radioGender1.setBounds(105, 145, 100, 30);
    panel1.add(radioGender1);
```



```
final JRadioButton radioGender2 = new JRadioButton("Male");
radioGender2.setBounds(200, 145, 100, 30);
panell1.add(radioGender2);

ButtonGroup bg = new ButtonGroup();
bg.add(radioGender1);
bg.add(radioGender2);

JLabel lblCityzen = new JLabel("Citizenship");
lblCityzen.setBounds(22, 185, 100, 16);
panell1.add(lblCityzen);

String country[] = {
    "Indonesia",
    "India",
    "Australia",
    "U.S.A",
    "England",
    "New Zealand"
};

final JComboBox<String> selectCitizen = new JComboBox<>(country);
selectCitizen.setBounds(105, 180, 169, 30);
panell1.add(selectCitizen);

JButton btnSubmit = new JButton("Submit");
btnSubmit.setBounds(105, 250, 169, 40);
ActionListener actionSubmit = new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        ArrayList<String> data = new ArrayList<String>();

        if (!textFullName.getText().isEmpty()) {
            data.add(textFullName.getText());
        } else {
            JOptionPane.showMessageDialog(null,
                "Data tidak boleh kosong (Nama Kosong). Silakan
periksa kembali isian anda.",
                "Alert!", JOptionPane.ERROR_MESSAGE);
        }

        if (!textEmail.getText().isEmpty()) {
            data.add(textEmail.getText());
        } else {
            JOptionPane.showMessageDialog(null,
                "Data tidak boleh kosong (Email Kosong).
Silakan periksa kembali isian anda.",
                "Alert!", JOptionPane.ERROR_MESSAGE);
        }

        if (!txtPhone.getText().isEmpty()) {
            data.add(txtPhone.getText());
        } else {
            JOptionPane.showMessageDialog(null,
                "Data tidak boleh kosong (No. Telepon Kosong).
Silakan periksa kembali isian anda.",
                "Alert!", JOptionPane.ERROR_MESSAGE);
        }
    }
};
```

```
        if (radioGender1.isSelected()) {
            data.add(radioGender1.getText());
        } else if (radioGender2.isSelected()) {
            data.add(radioGender2.getText());
        }

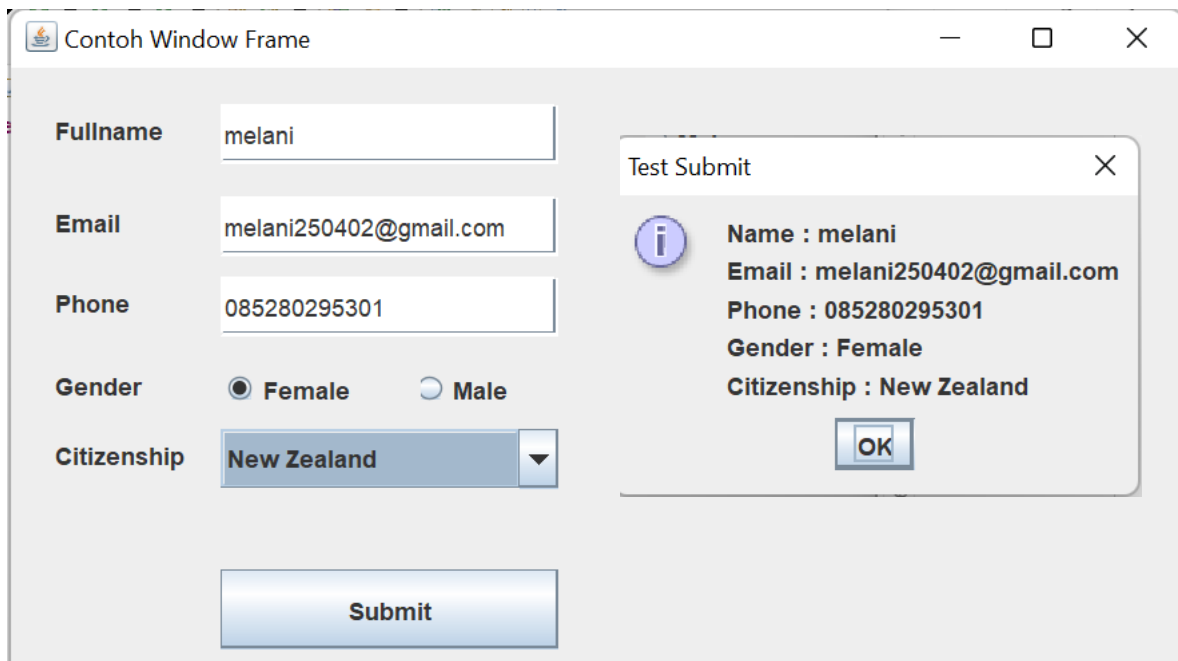
        data.add(selectCitizen.getSelectedItem().toString());

        String output = "";
        output += "Name : " + data.get(0) + "\n";
        output += "Email : " + data.get(1) + "\n";
        output += "Phone : " + data.get(2) + "\n";
        output += "Gender : " + data.get(3) + "\n";
        output += "Citizenship : " + data.get(4) + "\n";
        JOptionPane.showMessageDialog(null, output, "Test Submit",
JOptionPane.INFORMATION_MESSAGE);

        Login loginPage = new Login();
        loginPage.setVisible(true);
        dispose();
    }
};
btnSubmit.addActionListener(actionSubmit);
panell.add(btnSubmit);

frame.add(panell);
}

}
```



The screenshot shows a Java Swing window titled "Contoh Window Frame". Inside the window, there is a registration form with the following fields and controls:

- Fullname:** A text field containing "melani".
- Email:** A text field containing "melani250402@gmail.com".
- Phone:** A text field containing "085280295301".
- Gender:** Two radio buttons, "Female" (selected) and "Male".
- Citizenship:** A dropdown menu showing "New Zealand".
- Submit:** A large button at the bottom center.

Overlaid on the right side of the window is a "Test Submit" dialog box. It contains an information icon and displays the following data:

- Name : melani
- Email : melani250402@gmail.com
- Phone : 085280295301
- Gender : Female
- Citizenship : New Zealand

An "OK" button is located at the bottom of the dialog box.