

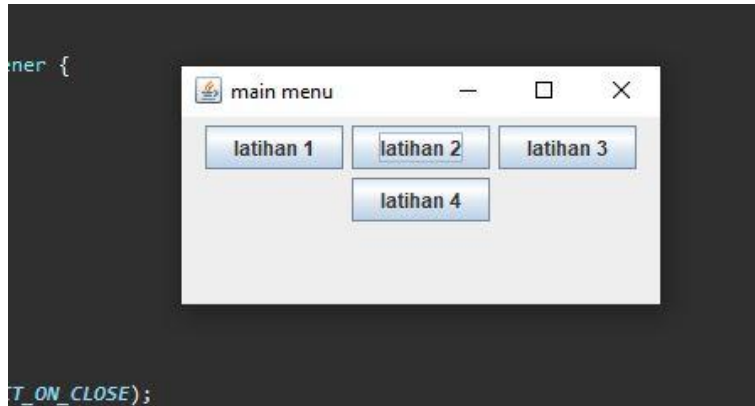
Firza azzhara

212310024

PBO Praktikum 7

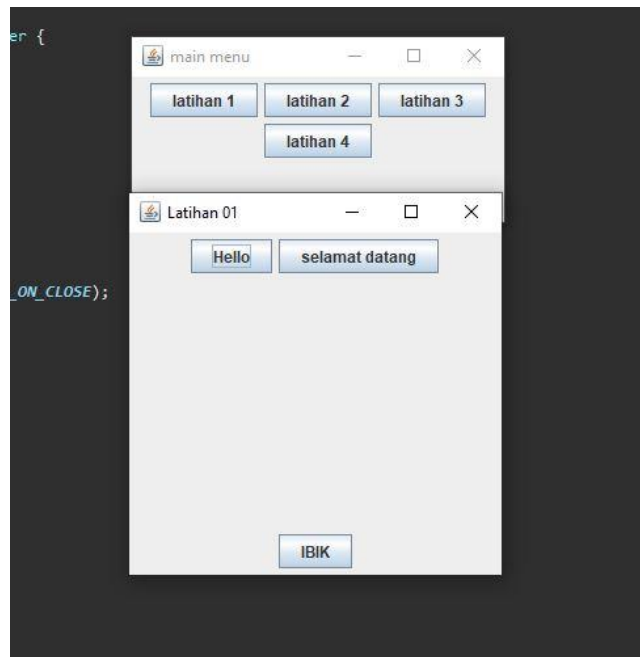
Membuat main app

[CODE MAIN APP](#)



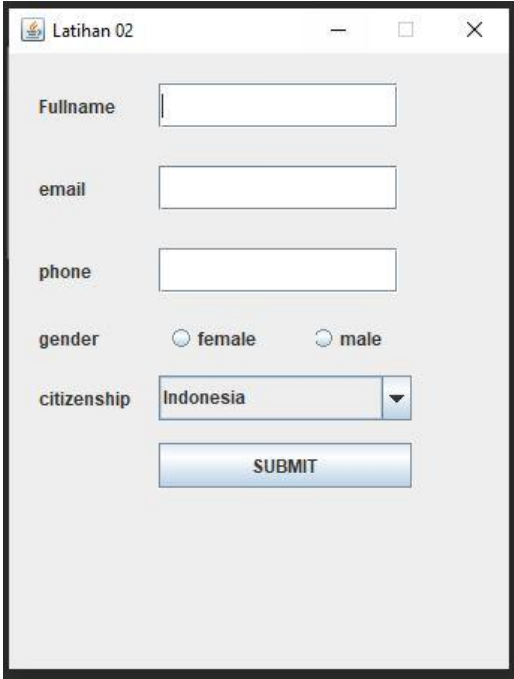
Membuat JFrame selamat datang

[CODE LATIHAN1](#)



Tampilan register

[CODE LATIHAN 2](#)

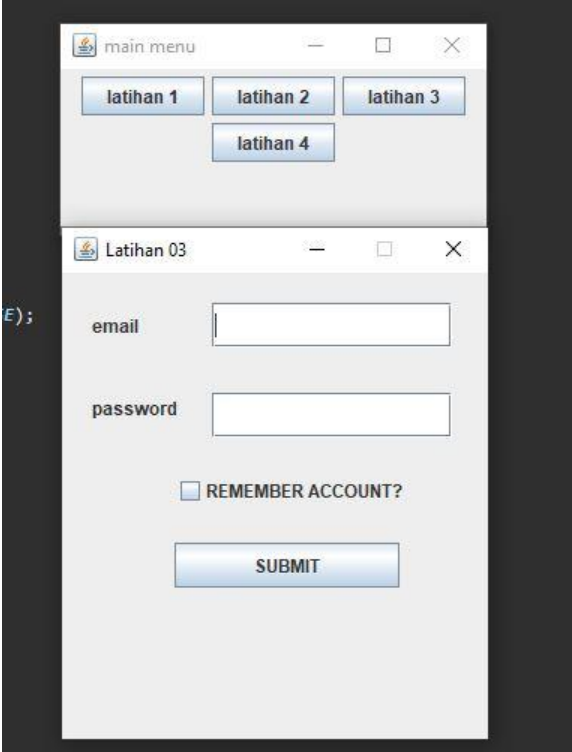


The screenshot shows a Java Swing window titled "Latihan 02". It contains a registration form with the following fields and controls:

- Fullname**: A text input field.
- email**: A text input field.
- phone**: A text input field.
- gender**: Two radio buttons labeled "female" and "male".
- citizenship**: A dropdown menu currently showing "Indonesia".
- SUBMIT**: A blue button at the bottom.

Tampilan login

[CODE LATIHAN 3](#)

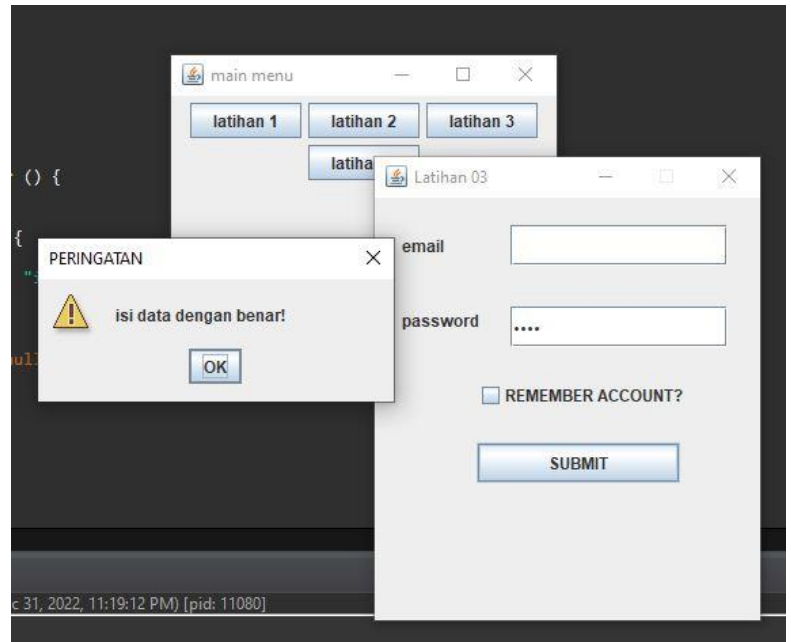


The screenshot shows a Java Swing application with two windows. The top window, titled "main menu", contains four buttons: "latihan 1", "latihan 2", "latihan 3", and "latihan 4". The bottom window, titled "Latihan 03", contains a login form with the following fields and controls:

- email**: A text input field.
- password**: A text input field.
- REMEMBER ACCOUNT?**: A checkbox.
- SUBMIT**: A blue button at the bottom.

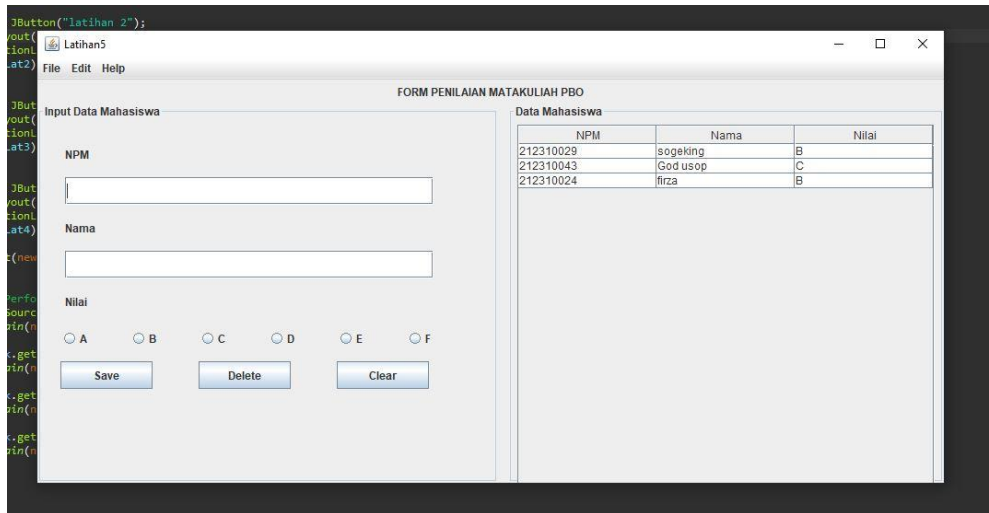
Tampilan login jika tidak sah karna tidak di isi

[CODE LATIHAN 3](#)



Tampilan jika sudah masuk login otomatis ke

[Latihan4](#)



```
// MAIN APP
```

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

```
import java.awt.FlowLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.WindowConstants;
```

```
public class App extends JFrame implements ActionListener {
```

```
    private JButton btn_Lat1;
    private JButton btn_Lat2;
    private JButton btn_Lat3;
    private JButton btn_Lat4;
```

```
    App() {
        setTitle("main menu");
        setVisible(true);
        pack();
        setSize(300,150);
        setLocationRelativeTo(null);
        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        GenerateUI(this);
    }
```

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

```
    public void GenerateUI(JFrame frame) {
        btn_Lat1 = new JButton("latihan 1");
        btn_Lat1.setLayout(null);
        btn_Lat1.addActionListener(this);
        frame.add(btn_Lat1);
```

```
        btn_Lat2 = new JButton("latihan 2");
        btn_Lat2.setLayout(null);
        btn_Lat2.addActionListener(this);
        frame.add(btn_Lat2);
```

```

        btn_Lat3 = new JButton("latihan 3");
        btn_Lat3.setLayout(null);
        btn_Lat3.addActionListener(this);
        frame.add(btn_Lat3);

        btn_Lat4 = new JButton("latihan 4");
        btn_Lat4.setLayout(null);
        btn_Lat4.addActionListener(this);
        frame.add(btn_Lat4);

        frame.setLayout(new FlowLayout());
    }

    @Override
    public void actionPerformed(ActionEvent onClick) {
        if(onClick.getSource() == btn_Lat1) {
            Latihan1.main(null);
        }
        else if(onClick.getSource() == btn_Lat2) {
            Latihan2.main(null);
        }
        else if(onClick.getSource() == btn_Lat3) {
            Latihan3.main(null);
        }
        else if(onClick.getSource() == btn_Lat4) {
            Latihan5.main(null);
        }
        else {
        }
    }
}

```

//LATIHAN1

```
package com.ibik.pbo.praktikum;
import java.awt.BorderLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

import javax.swing.JPanel;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JOptionPane;

public class Latihan1 extends JFrame {
    Latihan1() {
        setVisible(true);
        pack();
        setSize(300,300);
        setLocationRelativeTo(null);
        setTitle("Latihan 01");
        GenerateMenuButton(this);
    }
    public static void main( String[] args )
    {
        new Latihan1();
    }
    private void GenerateMenuButton(JFrame frame) {
        JPanel upperPanel = new JPanel();
        JButton btn_hello = new JButton("selamat datang");
        JButton btn_halo = new JButton("Hello");

        btn_hello.setSize(100, 50);
        btn_halo.setSize(100, 50);

        upperPanel.add(btn_halo);
        upperPanel.add(btn_hello);

        JPanel bottomPanel = new JPanel();
        JButton btn_ibik = new JButton("IBIK");

        btn_ibik.setSize(100, 50);
        bottomPanel.add(btn_ibik);

        btn_hello.addActionListener(new ActionListener() {
```

```

        @Override
        public void actionPerformed(ActionEvent e) {
            JOptionPane.showMessageDialog(null, "it means 'welcome' in
english");
        }

});
btn_halo.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            JOptionPane.showMessageDialog(null, "it means 'welcome' in
english");
        }

});
btn_ibik.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            JOptionPane.showMessageDialog(null, "hello ibik");
        }

});

frame.add(upperPanel, BorderLayout.NORTH);
frame.add(bottomPanel, BorderLayout.SOUTH);
}
}

```

//LATIHAN2

```
package com.ibik.pbo.praktikum;
import java.awt.BorderLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;

public class Latihan2 extends JFrame {
    Latihan2() {
        setTitle("Latihan 02");
        setVisible(true);
        pack();
        setSize(350,450);
        setLocationRelativeTo(null);
        setResizable(false);
        GenerateUI(this);
        setLayout(null);
    }
    public static void main(String[] args) {
        new Latihan2();
    }

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

        final JLabel fullName = new JLabel("Fullname");
        fullName.setBounds(20, 20, 80, 30);
        frame.add(fullName, BorderLayout.WEST);

        final JTextField textFullName = new JTextField();
        textFullName.setBounds(100, 20, 160, 30);
        frame.add(textFullName);

        final JLabel email = new JLabel("email");
        email.setBounds(20, 75, 80, 30);
        frame.add(email, BorderLayout.WEST);

        final JTextField textEmail = new JTextField();
        textEmail.setBounds(100, 75, 160, 30);
        frame.add(textEmail);
    }
}
```



```

final JLabel phone = new JLabel("phone");
phone.setBounds(20, 130, 80, 30);
frame.add(phone, BorderLayout.WEST);

final JTextField textPhone = new JTextField();
textPhone.setBounds(100, 130, 160, 30);
frame.add(textPhone);

JLabel gender = new JLabel("gender");
gender.setBounds(20, 175, 80, 30);
frame.add(gender, BorderLayout.WEST);

final JRadioButton radioGender1 = new JRadioButton("female");
radioGender1.setBounds(105, 175, 100, 30);
frame.add(radioGender1);

final JRadioButton radioGender2 = new JRadioButton("male");
radioGender2.setBounds(200, 175, 100, 30);
frame.add(radioGender2);

JLabel citizenship = new JLabel("citizenship");
citizenship.setBounds(20, 215, 80, 30);
frame.add(citizenship, BorderLayout.WEST);

String country[] = {"Indonesia", "India", "Australia", "Japan", "USA"};
final JComboBox selectCitizen = new JComboBox(country);
selectCitizen.setBounds(100, 215, 169, 30);
frame.add(selectCitizen);

final JButton btn_submit = new JButton("SUBMIT");
btn_submit.setBounds(100, 260, 169, 30);
frame.add(btn_submit);

btn_submit.addActionListener(new ActionListener () {

    @Override
    public void actionPerformed(ActionEvent e) {
        if(textFullName.getText().isEmpty() || textEmail.getText().isEmpty()
|| textPhone.getText().isEmpty() || (!radioGender1.isSelected() && !radioGender2.isSelected())) {
            JOptionPane.showMessageDialog(null, "isi data dengan
benar!", "PERINGATAN", JOptionPane.WARNING_MESSAGE);
        }
        else {
            if(e.getSource() == btn_submit) {
                String output = "BIODATA \n \n";
                String outputKelamin = "";

                if(radioGender1.isSelected()) {

```

```

        outputKelamin = radioGender1.getText();
        output += "Nama lengkap : " +
textFullName.getText() + "\n" + "email : " + textEmail.getText() + "\n" + "No. Telp : " +
textPhone.getText() + "\n" + "jenis kelamin : " + outputKelamin + "\n" + "asal negara : " +
selectCitizen.getSelectedItem();
    }
    else {
        outputKelamin = radioGender2.getText();
        output += "Nama lengkap : " +
textFullName.getText() + "\n" + "email : " + textEmail.getText() + "\n" + "No. Telp : " +
textPhone.getText() + "\n" + "jenis kelamin : " + outputKelamin + "\n" + "asal negara : " +
selectCitizen.getSelectedItem();
    }

    JOptionPane.showMessageDialog(null, output);
}
}
}
});
}
}
}

```

//LATIHAN3

```
package com.ibik.pbo.praktikum;
import java.awt.BorderLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

import javax.swing.*;

public class Latihan3 extends JFrame{
    private JLabel email, password, ibik;
    private JCheckBox remember;
    private JTextField textemail;
    private JPasswordField textpassword;
    private JButton btn_submit;

    Latihan3() {
        setTitle("Latihan 03");
        setLocationRelativeTo(null);
        setVisible(true);
        pack();
        setResizable(false);
        setSize(300, 350);
        GenerateUI(this);
        setLayout(null);
    }

    public static void main(String[] args) {
        new Latihan3();
    }

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

        email = new JLabel("email");
        textemail = new JTextField();
        textemail.setBounds(100, 20, 160, 30);
        email.setBounds(20, 20, 80, 30);
        frame.add(email); frame.add(textemail);

        password = new JLabel("password");
        textpassword = new JPasswordField();
        textpassword.setBounds(100, 80, 160, 30);
        password.setBounds(20, 75, 80, 30);
        frame.add(password); frame.add(textpassword);
    }
}
```

```

remember = new JCheckBox("REMEMBER ACCOUNT? ");
remember.setBounds(75, 130, 200, 30);
frame.add(remember);

btn_submit = new JButton("SUBMIT");
btn_submit.setBounds(75, 180, 150, 30);
frame.add(btn_submit);

btn_submit.addActionListener(new ActionListener () {

    @Override
    public void actionPerformed(ActionEvent e) {
        if(textemail.getText().isEmpty()) {
            JOptionPane.showMessageDialog(null, "isi data dengan
benar!", "PERINGATAN", JOptionPane.WARNING_MESSAGE);
        }
        else {
            if(e.getSource() == btn_submit) {
                JOptionPane.showMessageDialog(null, "welcome
user!", "informasi", JOptionPane.INFORMATION_MESSAGE);
            }
        }
    }

});

}
}

```

//LATIHAN4

```

package com.ibik.pbo.praktikum;

import javax.swing.JPanel;
import javax.swing.JRadioButton;
import javax.swing.JScrollPane;
import javax.swing.JTable;
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.JTextField;
import javax.swing.WindowConstants;
import javax.swing.border.Border;
import java.awt.Color;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class Latihan5 extends JFrame {
    Latihan5() {
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(1000, 500);
        setTitle("Latihan5");
        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        GenerateUI(this);
    }

    public static void main(String[] args) {
        new Latihan5();
    }

    private void GenerateUI( Latihan5 frame) {
        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 file1 = new JMenuItem("New");
        JMenuItem file2 = new JMenuItem("Save");
        JMenuItem file3 = new JMenuItem("Save as");
        JMenuItem file4 = new JMenuItem("Export");
        JMenuItem file5 = new JMenuItem("Import");
        JMenuItem file6 = new JMenuItem("Exit");
        fileMenu.add(file1);
        fileMenu.add(file2);

```

```

fileMenu.add(file3);
fileMenu.add(file4);
fileMenu.add(file5);
fileMenu.add(file6);

frame.setJMenuBar(menuBar);

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

JPanel headerPanel = new JPanel();
headerPanel.setLayout(new FlowLayout(FlowLayout.CENTER));
mainPanel.add(headerPanel, BorderLayout.NORTH);
JLabel headerTitle = new JLabel("FORM PENILAIAN MATAKULIAH PBO");
headerPanel.add(headerTitle);

Border leftPanelBorder = BorderFactory.createTitledBorder("Input Data Mahasiswa");
JPanel leftPanel = new JPanel();
leftPanel.setLayout(null);
leftPanel.setPreferredSize(new Dimension(500, 600));
mainPanel.add(leftPanel, BorderLayout.WEST);

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

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

JLabel gradeLabel = new JLabel("Nilai");
gradeLabel.setBounds(30, 200, 80, 30);
leftPanel.add(gradeLabel);

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

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

```

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

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

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

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

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

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

```
ButtonGroup nilai = new ButtonGroup();  
nilai.add(nilaiA);  
nilai.add(nilaiB);  
nilai.add(nilaiC);  
nilai.add(nilaiD);  
nilai.add(nilaiE);  
nilai.add(nilaiF);
```

```
// // 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(lftPanelBorder);
// End of Form

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

String data[][] = {
    { "212310029", "sogeving", "B" },
    { "212310043", "God usop", "C" },
    { "212310024", "firza", "B" }
};

String column[] = {
    "NPM",
    "Nama",
    "Nilai"
};

JTable output = new JTable(data, column);
output.setBounds(22, 40, 480, 450);

JScrollPane scrollPane = new JScrollPane(output);

rightPanel.add(scrollPane);
rightPanel.setBorder(tabel);
}
}

```