

Firza azzhara

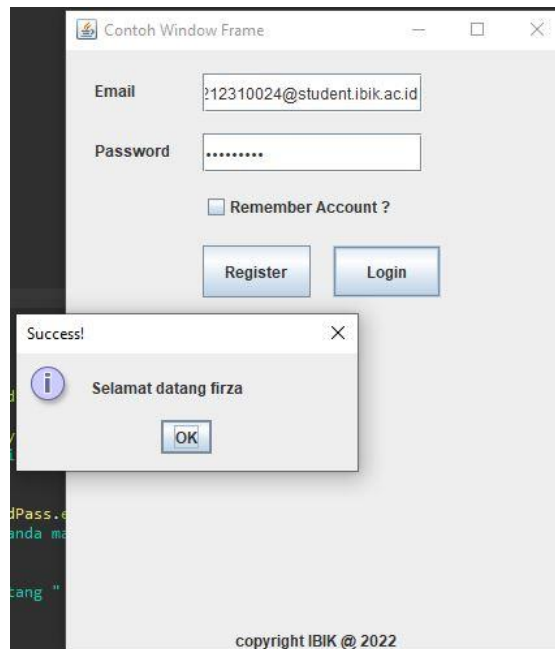
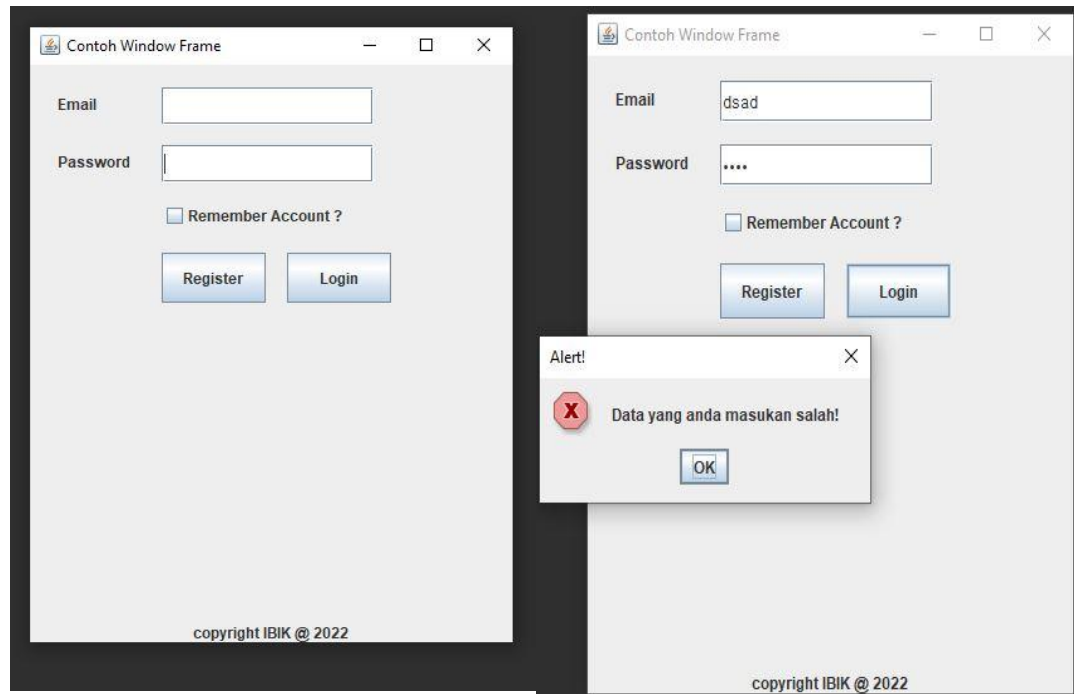
212310024

PBO Praktikum 6

Tampilan login yang sah  
dan tidak sah

Jika success maka  
langsung menampilkan  
table utama

[CODE LOGIN](#)



Tampilan register tan tidak sah

[CODE REGIST](#)

The screenshot shows a registration form window titled "Contoh Window Frame". The form contains the following fields: Fullname (filled with "firza"), Email (filled with "firza"), Phone (empty), Gender (radio buttons for Female and Male, both unselected), and Citizenship (dropdown menu showing "Indonesia"). A "Submit" button is at the bottom. An "Alert!" dialog box is overlaid on the form, displaying a red error icon and the message: "No Telepon tidak boleh kosong. Silakan periksa kembali isian anda." (Phone cannot be empty. Please check your input again.). An "OK" button is at the bottom of the alert box.

The screenshot shows the same registration form window as above, but without the alert dialog box. The fields are: Fullname ("firza"), Email ("firza"), Phone (empty), Gender (radio buttons for Female and Male, both unselected), and Citizenship (dropdown menu showing "Indonesia"). A "Submit" button is at the bottom.

Tampilan Tabel utama

[CODE TABLE UTAMA](#)

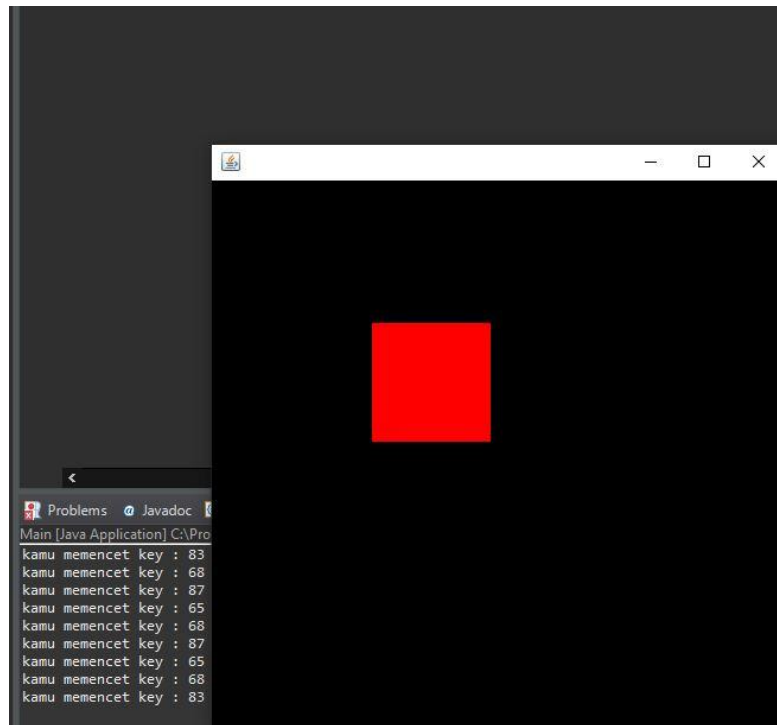
The screenshot shows a student evaluation form window titled "Latihan5". The window has a menu bar with "File", "Edit", and "Help". The main area is divided into two sections: "Input Data Mahasiswa" on the left and "Data Mahasiswa" on the right. The "Input Data Mahasiswa" section contains fields for "NPM", "Nama", and "Nilai" (with radio buttons for A, B, C, D, E, and F). Below these fields are "Save", "Delete", and "Clear" buttons. The "Data Mahasiswa" section contains a table with the following data:

| NPM       | Nama      | Nilai |
|-----------|-----------|-------|
| 212310029 | sogeking  | B     |
| 212310043 | God usop  | C     |
| 212310024 | Firza azz | B     |

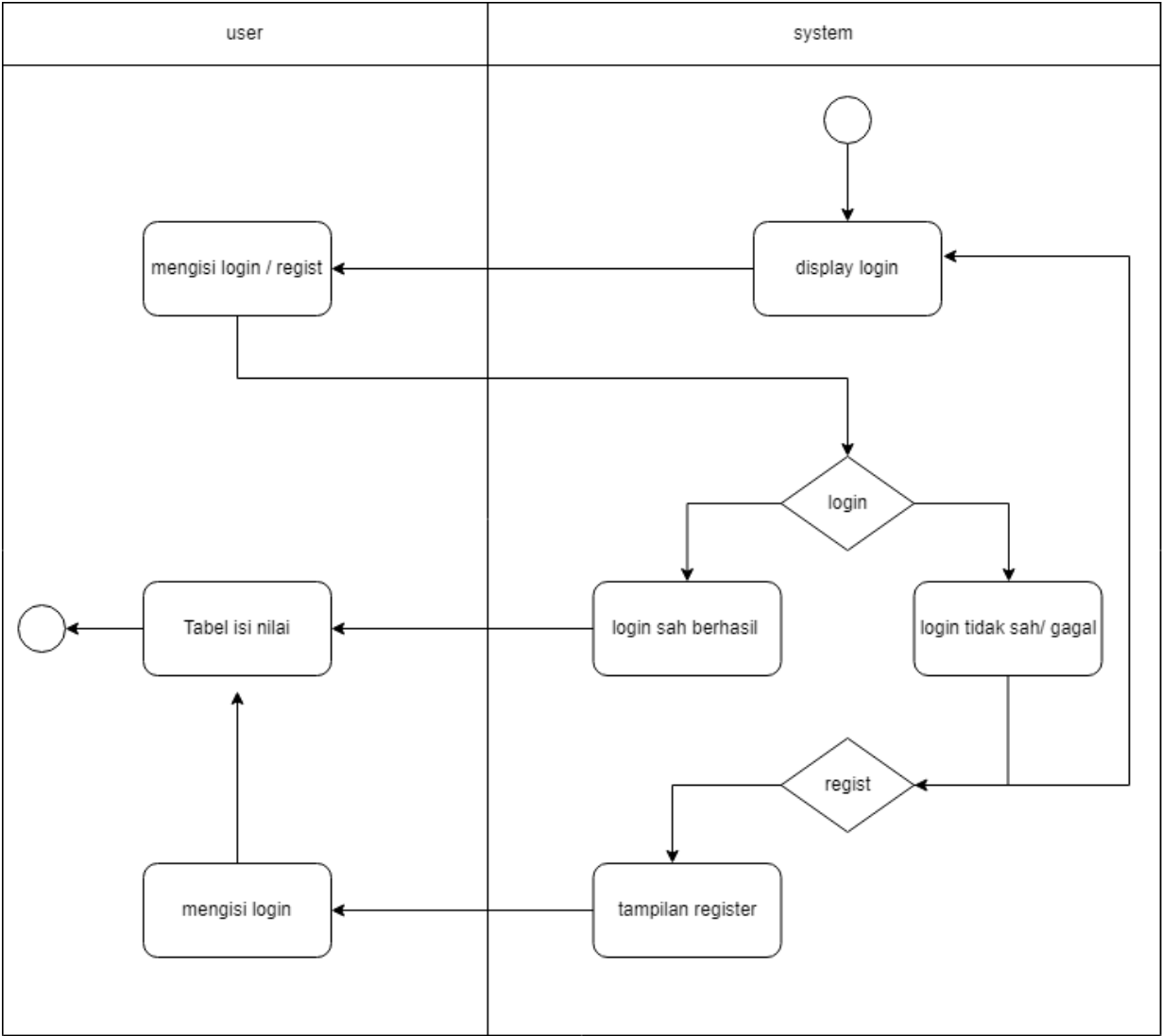
Membuat objek bergerak dengan WASD

[CODE MAIN](#)[gambar](#)

[CODE Gambar](#)



Activity diagram



## //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 {
    Login() {
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(400, 500);
        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 Email = new JLabel("Email");
        Email.setBounds(22, 23, 80, 16);
```

```

panel1.add((Email));

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

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

final JPasswordField textPassword = new JPasswordField();
textPassword.setBounds(105, 64, 169, 30);
panel1.add(textPassword);

JCheckBox chkRemember = new JCheckBox("Remember Account ?");
chkRemember.setBounds(105, 100, 169, 40);
panel1.add(chkRemember);

JButton btnRegister = new JButton("Register");
btnRegister.setBounds(105, 150, 83, 40);
btnRegister.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        Regist regPage = new Regist();
        regPage.setVisible(true);
        dispose();
    }
});
panel1.add(btnRegister);

JButton tombolLog = new JButton("Login");
tombolLog.setBounds(205, 150, 83, 40);
tombolLog.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        String data[] = {
            "212310024@student.ibik.ac.id",
            "212310024",
            "firza"
        };

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

        if (textEmail.getText().isEmpty() || inputPass.isEmpty()) {
            JOptionPane.showMessageDialog(null, "Silakan mengisi data dengan benar", "Alert!",
                JOptionPane.ERROR_MESSAGE);
        } else {
            if (!textEmail.getText().equals(data[0]) && !inputPass.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);

        Tabelnilai table = new Tabelnilai();
        table.setVisible(true);
        dispose();
    }
}
});
panel1.add(tombolLog);

JLabel lblCopyright = new JLabel("copyright IBIK @ 2022", SwingConstants.CENTER);
lblCopyright.setSize(300, 50);
mainPanel.add(lblCopyright, BorderLayout.SOUTH);

frame.add(panel1);
}
}

```

// regist

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

import javax.swing.ButtonGroup;
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.util.ArrayList;
import java.awt.BorderLayout;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class Regist extends JFrame {
    Regist() {
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(400, 500);
        setTitle("Contoh Window Frame");
        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        GenerateUI(this);
    }

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

    private void GenerateUI(Regist 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 Email = new JLabel("Email");
Email.setBounds(22, 69, 61, 16);
panel1.add(Email);

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

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);
panel1.add(radioGender2);

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

JLabel lblCityzen = new JLabel("Citizenship");
lblCityzen.setBounds(22, 185, 100, 16);
panel1.add(lblCityzen);

String country[] = {
    "Indonesia",
    "China",
    "jepang"
};
```

```

final JComboBox selectCitizen = new JComboBox<>(country);
selectCitizen.setBounds(105, 180, 169, 30);
panel1.add(selectCitizen);

JButton tombsub = new JButton("Submit");
tombsub.setBounds(100, 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,
                "Nama tidak boleh kosong . Silakan periksa kembali isian anda.",
                "Alert!", JOptionPane.ERROR_MESSAGE);
        }

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

        if (!txtPhone.getText().isEmpty()) {
            data.add(txtPhone.getText());
        } else {
            JOptionPane.showMessageDialog(null,
                "No Telepon tidak boleh 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();
```

```
    }
```

```
};
```

```
tombsub.addActionListener(actionSubmit);  
panel1.add(tombsub);
```

```
frame.add(panel1);
```

```
}
```

```
}
```

## // Table

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

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

    private void GenerateUI( Tabelnilai 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 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 azz", "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);
}
}

```

## //MAIN Gambar

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

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        new Gambar();  
    }
```



## // Gambar

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

import java.awt.Color;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.event.MenuKeyListener;

public class Gambar extends JFrame implements KeyListener {

    JLabel label;
    ImageIcon icon;

    Gambar(){
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        this.setSize(500,500);
        this.setLayout(null);
        this.addKeyListener(this);

        //icon = new ImageIcon("D:\\Projek maven\\PBO-212310024-PRAKTIKUM-
8\\gambar1");

        label = new JLabel();
        label.setBounds(0,0,100,100);
        label.setIcon(icon);
        label.setBackground(Color.red);
        label.setOpaque(true);

        this.getContentPane().setBackground(Color.black);
        this.add(label);
        this.setVisible(true);
    }

    @Override
    public void keyTyped(KeyEvent e) {
        // TODO Auto-generated method stub
        switch(e.getKeyChar()) {
            case 'a': label.setLocation(label.getX()-15,label.getY());
                break;
            case 'w': label.setLocation(label.getX(),label.getY()-15);
                break;
            case 's': label.setLocation(label.getX(),label.getY()+15);
                break;
            case 'd': label.setLocation(label.getX()+15,label.getY());
```

```
        break;
    }
}

@Override
public void keyPressed(KeyEvent e) {
    // TODO Auto-generated method stub

}

@Override
public void keyReleased(KeyEvent e) {
    // TODO Auto-generated method stub
    System.out.println("kamu memencet key : " + e.getKeyCode());
}
}
```