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```
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 Latihan02 extends JFrame {
      private static final long serialVersionUID = 1L;
      Latihan02() {
       // menampilkan jendela pada layar
        setVisible(true);
        // menentukan posisi jendela pada tengah layar
        setLocationRelativeTo(null);
        // menentukan ukuran width dan height ada jendela
        setSize(350, 400);
        // berikan judul pada jendela
        setTitle("Contoh Window Frame");
        // menutup jendela secara penuh
        setDefaultCloseOperation(WindowConstants.EXIT ON CLOSE);
        GenerateUI(this);
    }
    public static void main(String[] args) {
        new Latihan02();
    }
    private void GenerateUI(Latihan02 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);
```



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```
final JTextField textFullName = new JTextField();
textFullName.setBounds(105, 18, 169, 30);
textFullName.setEditable(true);
// textFullName.setText("Muhamad Agus");
// textFullName.setBackground(Color.LIGHT GRAY);
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);
panel1.add(radioGender2);
ButtonGroup bg = new ButtonGroup();
bg.add(radioGender1);
bg.add(radioGender2);
JLabel lblCityzen = new JLabel("Citizenship");
lblCityzen.setBounds(22, 185, 100, 16);
panel1.add(lblCityzen);
String country[] = {
        "Indonesia",
        "Rusia",
        "Australia",
        "U.S.A",
        "England",
        "New Zealand"
};
final JComboBox<String> selectCitizen = new JComboBox<>(country);
selectCitizen.setBounds(105, 180, 169, 30);
panel1.add(selectCitizen);
JButton btnSubmit = new JButton("Submit");
btnSubmit.setBounds(105, 250, 169, 40);
ActionListener actionSubmit = new ActionListener() {
   public void actionPerformed(ActionEvent e) {
```

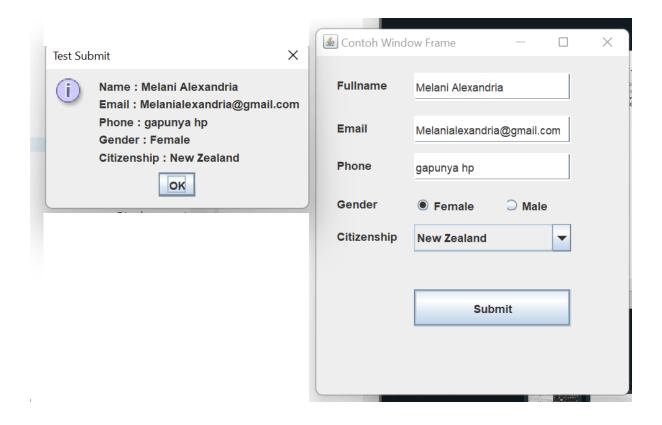


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```
ArrayList<String> data = new ArrayList<String>();
                if (!textFullName.getText().isEmpty()) {
                    data.add(textFullName.getText());
                } else {
                    JOptionPane.showMessageDialog(null,
                            "Ada Data Yang Belom Di Isi. Isi Semua Data
Gus.",
                            "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());
                    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);
        btnSubmit.addActionListener(actionSubmit);
        panel1.add(btnSubmit);
        frame.add(panel1);
    }
```



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```
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 Latihan03 extends JFrame {
    /**
      private static final long serialVersionUID = 1L;
      Latihan03() {
        // menampilkan jendela pada layar
        setVisible(true);
        // menentukan posisi jendela pada tengah layar
        pack();
```



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setLocationRelativeTo(null);

```
// menentukan ukuran width dan height ada jendela
        setSize(500, 500);
        // berikan judul pada jendela
        setTitle("Contoh Window Frame");
        // menutup jendela secara penuh
        setDefaultCloseOperation(WindowConstants. EXIT ON CLOSE);
        GenerateUI(this);
    public static void main(String[] args) {
        new Latihan03();
    private void GenerateUI(Latihan03 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);
        panel1.add(lblPassword);
        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 btnSubmit = new JButton("Submit");
        btnSubmit.setBounds(105, 150, 169, 40);
        ActionListener actionSubmit = new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                String myEmail = "212310004@student.ibik.ac.id";
                String myName = "Muhamad Agus";
                String myPass = "212310004";
                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 {
```



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```
if (!textEmail.getText().equals(myEmail) &&
!inputPass.equals(myPass)) {
                            JOptionPane.showMessageDialog(null, "Data yang anda
masukan salah", "Alert",
                                     JOptionPane.ERROR MESSAGE);
                       } else {
                            JOptionPane.showMessageDialog(null, "Selamat Datang
" + myName, "Success!",
                                     JOptionPane. INFORMATION MESSAGE);
                  }
         };
         btnSubmit.addActionListener(actionSubmit);
         panel1.add(btnSubmit);
         JLabel lblCopyright = new JLabel("copyright IBIK @ 2022",
SwingConstants.CENTER);
         lblCopyright.setBackground(Color.BLUE);
         lblCopyright.setSize(300, 50);
         mainPanel.add(lblCopyright, BorderLayout.SOUTH);
         frame.add(panel1);
    }
Contoh Window Frame
        asuuuw@gmail.com
                                                  MelaniAlexandria@gmail.com
 Password
        .....
                                            Password
                                                  .....
        Remember Account ?
                                                  Remember Account ?
             Submit
                                                       Submit
              copyright IBIK @ 2022
                                                        copyright IBIK @ 2022
Alert
                                  X
                                                                           ×
                                         Success!
        Data yang anda masukan salah
                                                Selamat Datang Melani
                 OK
                                                         OK
```



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```
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 Latihan04 extends JFrame {
      private static final long serialVersionUID = 1L;
      Latihan04() {
       setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(1000, 480);
        setTitle("Form");
        setDefaultCloseOperation(WindowConstants.EXIT ON CLOSE);
        GenerateUI(this);
    }
    public static void main(String[] args) {
        new Latihan04();
    }
    private void GenerateUI(Latihan04 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");
```



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```
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 lftPanelBorder = 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);
```



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```
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);
        bq.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(lftPanelBorder);
        // 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", "Melani Alexandria", "A" },
                { "212310002", "Melani Shelby", "A" },
                { "212310003", "Melani Laragon", "A" }
        String column[] = {
                "Student ID",
                "Name",
                "Grade"
        };
```



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	JTable jt = new JTable(data jt.setBounds(22, 40, 480, 4 JScrollPane sp = new JScrol	150);					
	rightPanel.add(sp);						
}	rightPanel.setBorder(rPanel	Borde	r);				
Form	In .				-	0	×
riie Luit He	FORM PENILAIA	Δ N I N /I	ΔΤΔΚΙΙΙΙΔ	H PRO			
Input Data Mah			Data Mahasiswa				
NPM			Student ID 212310004 212310002 212310003	Name Melani Alexandria Melani Shelby Melani Laragon	A A A	Grade	
Nama							
Nilai A Save	OB OC OD OE OF Delete Clear						