

PRATIUM PEMROGRAMAN II
TUGAS - 6



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A. File (MainApp.java)

```
import java.awt.*;
import javax.swing.*;

public class MainApp extends JFrame {

    public MainApp() {
        // Set title and default close operation
        setTitle("Aplikasi Java dengan Multi Form");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(800, 600);
        setLocationRelativeTo(null);

        // Create menu bar
        JMenuBar menuBar = new JMenuBar();
        JMenu menu = new JMenu("Menu");
        JMenuItem menuItem1 = new JMenuItem("Form Input 1");
        JMenuItem menuItem2 = new JMenuItem("Form Input 2");
        menu.add(menuItem1);
        menu.add(menuItem2);
        menuBar.add(menu);
        setJMenuBar(menuBar);

        // Main panel with CardLayout for switching between forms
        JPanel mainPanel = new JPanel(new CardLayout());

        // Create and add Form 1 and Form 2 to main panel
        JPanel formPanel1 = new FormPanel1();
        JPanel formPanel2 = new FormPanel2();
        mainPanel.add(formPanel1, "Form Input 1");
        mainPanel.add(formPanel2, "Form Input 2");

        // Add action listeners for menu items to switch forms
        menuItem1.addActionListener(e -> showForm(mainPanel, "Form Input 1"));
        menuItem2.addActionListener(e -> showForm(mainPanel, "Form Input 2"));

        // Add main panel to frame
        add(mainPanel);

        setVisible(true);
    }

    private void showForm(JPanel mainPanel, String formName) {
        CardLayout cl = (CardLayout) mainPanel.getLayout();
        cl.show(mainPanel, formName);
    }

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

```
        SwingUtilities.invokeLater(MainApp::new);
    }
}
```

B. File (FormPanel1)

```
import java.awt.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

public class FormPanel1 extends JPanel {
    private JTextField textField;
    private JTextArea textArea;
    private JRadioButton radioButton1, radioButton2;
    private JCheckBox checkBox;
    private JComboBox<String> comboBox;
    private JList<String> list;
    private JSlider slider;
    private JSpinner spinner;
    private JTable table;
    private DefaultTableModel tableModel;

    public FormPanel1() {
        setLayout(new BorderLayout());

        // Panel untuk memasukkan komponen input
        JPanel inputPanel = new JPanel();
        inputPanel.setLayout(new GridLayout(9, 2, 5, 5));

        // JTextField
        inputPanel.add(new JLabel("Text Field:"));
        textField = new JTextField();
        inputPanel.add(textField);

        // JTextArea
        inputPanel.add(new JLabel("Text Area:"));
        textArea = new JTextArea(3, 20);
        inputPanel.add(new JScrollPane(textArea));

        // JRadioButton
        inputPanel.add(new JLabel("Radio Button:"));
        radioButton1 = new JRadioButton("Option 1");
        radioButton2 = new JRadioButton("Option 2");
        ButtonGroup group = new ButtonGroup();
        group.add(radioButton1);
        group.add(radioButton2);
        JPanel radioPanel = new JPanel();
        radioPanel.add(radioButton1);
```

```

        radioPanel.add(radioButton2);
        inputPanel.add(radioPanel);

        // JCheckBox
        inputPanel.add(new JLabel("Check Box:"));
        checkBox = new JCheckBox("Agree?");
        inputPanel.add(checkBox);

        // JComboBox
        inputPanel.add(new JLabel("Combo Box:"));
        comboBox = new JComboBox<>(new String[] { "Option 1", "Option 2",
"Option 3" });
        inputPanel.add(comboBox);

        // JList
        inputPanel.add(new JLabel("List:"));
        list = new JList<>(new String[] { "Item 1", "Item 2", "Item 3" });
        inputPanel.add(new JScrollPane(list));

        // JSlider
        inputPanel.add(new JLabel("Slider:"));
        slider = new JSlider(0, 100, 50);
        inputPanel.add(slider);

        // JSpinner
        inputPanel.add(new JLabel("Spinner:"));
        spinner = new JSpinner(new SpinnerNumberModel(1, 1, 10, 1));
        inputPanel.add(spinner);

        // Panel untuk menampung input dan tombol
        add(inputPanel, BorderLayout.CENTER);

        // JTable
        String[] columns = { "Field", "Value" };
        tableModel = new DefaultTableModel(columns, 0);
        table = new JTable(tableModel);
        add(new JScrollPane(table), BorderLayout.SOUTH);

        // Button to add input data to table
        JButton addButton = new JButton("Add to Table");
        addButton.addActionListener(e -> addToTable());
        add(addButton, BorderLayout.NORTH);
    }

    private void addToTable() {
        tableModel.addRow(new Object[] { "TextField", textField.getText() });
        tableModel.addRow(new Object[] { "TextArea", textArea.getText() });
    }

```

```

        tableModel.addRow(new Object[] { "RadioButton",
radioButton1.isSelected() ? "Option 1" : "Option 2" });
        tableModel.addRow(new Object[] { "CheckBox", checkBox.isSelected() ?
"Checked" : "Unchecked" });
        tableModel.addRow(new Object[] { "ComboBox",
comboBox.getSelectedItem().toString() });
        tableModel.addRow(new Object[] { "List", list.getSelectedValue() });
        tableModel.addRow(new Object[] { "Slider", slider.getValue() });
        tableModel.addRow(new Object[] { "Spinner", spinner.getValue() });
    }
}

```

C. File (FormPanel2)

```

import java.awt.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

public class FormPanel2 extends JPanel {
    private JTextField textField;
    private JTextArea textArea;
    private JRadioButton radioButton1, radioButton2;
    private JCheckBox checkBox;
    private JComboBox<String> comboBox;
    private JList<String> list;
    private JSlider slider;
    private JSpinner spinner;
    private JTable table;
    private DefaultTableModel tableModel;

    public FormPanel2() {
        setLayout(new BorderLayout());

        // Panel untuk memasukkan komponen input
        JPanel inputPanel = new JPanel();
        inputPanel.setLayout(new GridLayout(9, 2, 5, 5));

        // JTextField
        inputPanel.add(new JLabel("Text Field:"));
        textField = new JTextField();
        inputPanel.add(textField);

        // JTextArea
        inputPanel.add(new JLabel("Text Area:"));
        textArea = new JTextArea(3, 20);
        inputPanel.add(new JScrollPane(textArea));

        // JRadioButton

```

```

inputPanel.add(new JLabel("Radio Button:"));
radioButton1 = new JRadioButton("Option 1");
radioButton2 = new JRadioButton("Option 2");
ButtonGroup group = new ButtonGroup();
group.add(radioButton1);
group.add(radioButton2);
JPanel radioPanel = new JPanel();
radioPanel.add(radioButton1);
radioPanel.add(radioButton2);
inputPanel.add(radioPanel);

// JCheckBox
inputPanel.add(new JLabel("Check Box:"));
checkBox = new JCheckBox("Agree?");
inputPanel.add(checkBox);

// JComboBox
inputPanel.add(new JLabel("Combo Box:"));
comboBox = new JComboBox<>(new String[] { "Option 1", "Option 2",
"Option 3" });
inputPanel.add(comboBox);

// JList
inputPanel.add(new JLabel("List:"));
list = new JList<>(new String[] { "Item 1", "Item 2", "Item 3" });
inputPanel.add(new JScrollPane(list));

// JSlider
inputPanel.add(new JLabel("Slider:"));
slider = new JSlider(0, 100, 50);
inputPanel.add(slider);

// JSpinner
inputPanel.add(new JLabel("Spinner:"));
spinner = new JSpinner(new SpinnerNumberModel(1, 1, 10, 1));
inputPanel.add(spinner);

// Panel untuk menampung input dan tombol
add(inputPanel, BorderLayout.CENTER);

// JTable
String[] columns = { "Field", "Value" };
tableModel = new DefaultTableModel(columns, 0);
table = new JTable(tableModel);
add(new JScrollPane(table), BorderLayout.SOUTH);

// Button to add input data to table
JButton addButton = new JButton("Add to Table");

```

```

        addButton.addActionListener(e -> addToTable());
        add(addButton, BorderLayout.NORTH);
    }

    private void addToTable() {
        tableModel.addRow(new Object[] { "TextField", textField.getText() });
        tableModel.addRow(new Object[] { "TextArea", textArea.getText() });
        tableModel.addRow(new Object[] { "RadioButton",
radioButton1.isSelected() ? "Option 1" : "Option 2" });
        tableModel.addRow(new Object[] { "CheckBox", checkBox.isSelected() ?
"Checked" : "Unchecked" });
        tableModel.addRow(new Object[] { "ComboBox",
comboBox.getSelectedItem().toString() });
        tableModel.addRow(new Object[] { "List", list.getSelectedValue() });
        tableModel.addRow(new Object[] { "Slider", slider.getValue() });
        tableModel.addRow(new Object[] { "Spinner", spinner.getValue() });
    }
}

```

Penjelasan

1. **File MainApp.java:** Ini adalah kelas utama yang mengelola seluruh aplikasi dan membuat navigasi antara form 1 dan form 2. Form 2 dipanggil sebagai instance dari kelas `FormPanel2`.
2. **File FormPanel2.java**

: Ini adalah form kedua yang ditambahkan ke aplikasi utama. `FormPanel2` dibuat dengan layout sederhana yang terdiri dari sebuah label, `JTextField`, dan tombol submit.

Cara Kerja

- `MainApp` mengatur `CardLayout` dan menu untuk navigasi antara Form 1 dan Form 2.
- Ketika pengguna memilih "Form Input 2" dari menu, aplikasi akan menampilkan form yang dibuat di `FormPanel2`.

Outputnya :

- Form 1

The screenshot shows a Java application window titled "Aplikasi Java" with standard window controls (minimize, maximize, close). The application contains a form with the following elements:

- Menu:** A blue header bar with the text "Add to Table".
- Text Field:** A single-line text input field.
- Text Area:** A multi-line text input field with a vertical scrollbar.
- Radio Button:** Two radio buttons labeled "Option 1" and "Option 2".
- Check Box:** A checkbox labeled "Agree?".
- Combo Box:** A dropdown menu currently showing "Option 1".
- List:** A list box currently showing "Item 1" with a vertical scrollbar.
- Slider:** A horizontal slider control.
- Spinner:** A numeric spinner control currently showing the value "1".

Below the form elements is a table with two columns: "Field" and "Value". The table is currently empty.

Field	Value
-------	-------

- Form 2 :

Aplikasi Java dengan Multi Form

Menu

Add to Table

Text Field: awdwa

Text Area: awdaw

Radio Button: ☒ Option 1 ☐ Option 2

Check Box: ☐ Agree?

Combo Box: Option 1

List: Item 1

Slider: 50

Spinner: 1

Field	Value
TextField	awdwa
TextArea	awdaw
RadioButton	Option 1
CheckBox	Unchecked
ComboBox	Option 1
List	Item 1
Slider	50
Spinner	1

- Form 2