

LAPORAN PRAKTIKUM
PEMROGRAMAN BERORIENTASI OBJEK
MODUL X
MATERI



Oleh :

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S1SI-07-C

PROGRAM STUDI S1 SISTEM INFORMASI
FAKULTAS REKAYASA INDUSTRI
UNIVERSITAS TELKOM PURWOKERTO
2024

I. GUIDED

1. Buat project baru dengan LatihanP9Nama. Nama diganti dengan nama kalian, contoh : LatihanP9SenaWijayanto
2. Ubah kode program PraktikGUI :

```
/**
 *
 * @author Bunga Ramadhani S
 * 2311103128
 * S1SI07C
 */

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        JFrame myFrame = new JFrame ("My First Frame");
        myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        myFrame.setSize(600,600);
        myFrame.setVisible(true);
    }
}
```

3. Tambahkan JPanel pada GUI

```
import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new BoxLayout(myPanel,
        BoxLayout.Y_AXIS));
        myFrame.getContentPane().add(myPanel);
        myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        myFrame.setSize(600,600);
        myFrame.setVisible(true);
    }
}
```

4. Tambahkan JLabel pada GUI

```
import javax.swing.*;

public class PraktikGUI {

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

```

JFrame myFrame = new JFrame ("My First Frame");
JPanel myPanel = new JPanel();
myPanel.setLayout(new BoxLayout(myPanel,
BoxLayout.Y_AXIS));
JLabel myLabel = new JLabel("Bunga Ramadhani S");
myPanel.add(myLabel);
myFrame.getContentPane().add(myPanel);
myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
myFrame.setSize(600,600);
myFrame.setVisible(true);
}
}

```

5. Tambahkan JButton pada GUI

```

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new BoxLayout(myPanel,
BoxLayout.Y_AXIS));
        JLabel myLabel = new JLabel("Bunga Ramadhani S");
        JButton myButton = new JButton("Tombol 1st");
        JButton myNdButton = new JButton("Tombol 2nd");
        myPanel.add(myLabel);
        myPanel.add(myButton);
        myPanel.add(myNdButton);
        myFrame.getContentPane().add(myPanel);
        myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        myFrame.setSize(600,600);
        myFrame.setVisible(true);
    }
}

```

6. Tambahkan JTextField pada GUI

```

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new BoxLayout(myPanel,
BoxLayout.Y_AXIS));
        JLabel myLabel = new JLabel("Bunga Ramadhani S");
        JButton myButton = new JButton("Tombol 1st");
        JButton myNdButton = new JButton("Tombol 2nd");

```

```

        JTextArea myTextArea = new JTextArea("My First Text Area...", 5,
30);
        myPanel.add(myLabel);
        myPanel.add(myButton);
        myPanel.add(myNdButton);
        myPanel.add(myTextArea);
        myFrame.getContentPane().add(myPanel);
        myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        myFrame.setSize(600,600);
        myFrame.setVisible(true);
    }
}

```

7. Tambahkan JCheckBox pada GUI

```

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new BoxLayout(myPanel,
BoxLayout.Y_AXIS));
        JLabel myLabel = new JLabel("Bunga Ramadhani S");
        JButton myButton = new JButton("Tombol 1st");
        JButton myNdButton = new JButton("Tombol 2nd");
        JTextArea myTextArea = new JTextArea("My First Text Area...",
5,30);
        JCheckBox myCbxOne = new JCheckBox("Libur masih lama");
        JCheckBox myCbxTwo = new JCheckBox("Libur agak dekat");
        JCheckBox myCbxThree = new JCheckBox("Libur sudah dekat");
        JCheckBox myCbxFour = new JCheckBox("Libur sudah tiba");
        myPanel.add(myLabel);
        myPanel.add(myButton);
        myPanel.add(myNdButton);
        myPanel.add(myTextArea);
        myPanel.add(myCbxOne);
        myPanel.add(myCbxTwo);
        myPanel.add(myCbxThree);
        myPanel.add(myCbxFour);
        myFrame.getContentPane().add(myPanel);
        myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        myFrame.setSize(600,600);
        myFrame.setVisible(true);
    }
}

```

8. Tambahkan JradioButton dan ButtonGroup pada GUI

```

import javax.swing.*;

```

```

public class PraktikGUI {

    public static void main(String [] args){
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new                                BoxLayout(myPanel,
BoxLayout.Y_AXIS));
        JLabel myLabel = new JLabel("Bunga Ramadhani S");
        JButton myButton = new JButton("Tombol 1st");
        JButton myNdButton = new JButton("Tombol 2nd");
        JTextArea myTextArea = new JTextArea("My First Text Area...",
5,30);
        JCheckBox myCbxOne = new JCheckBox("Libur masih lama");
        JCheckBox myCbxTwo = new JCheckBox("Libur agak dekat");
        JCheckBox myCbxThree = new JCheckBox("Libur sudah dekat");
        JCheckBox myCbxFour = new JCheckBox("Libur sudah tiba");
        JRadioButton myRdoOne = new JRadioButton("Putera", true);
        JRadioButton myRdoTwo = new JRadioButton("Puteri", false);
        ButtonGroup grpRdo = new ButtonGroup();
        grpRdo.add(myRdoOne);
        grpRdo.add(myRdoTwo);
        myPanel.add(myLabel);
        myPanel.add(myButton);
        myPanel.add(myNdButton);
        myPanel.add(myTextArea);
        myPanel.add(myCbxOne);
        myPanel.add(myCbxTwo);
        myPanel.add(myCbxThree);
        myPanel.add(myCbxFour);
        myPanel.add(myRdoOne);
        myPanel.add(myRdoTwo);
        myFrame.getContentPane().add(myPanel);
        myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        myFrame.setSize(600,600);
        myFrame.setVisible(true);
    }
}

```

9. Tambahkan JList pada GUI

```

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        String hari [] = {"Senin", "Selasa", "Rabu", "Kamis", "Jumat",
"Sabtu", "Ahad"};
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new                                BoxLayout(myPanel,
BoxLayout.Y_AXIS));

```

```

JLabel myLabel = new JLabel("Bunga Ramadhani S");
JButton myButton = new JButton("Tombol 1st");
JButton myNdButton = new JButton("Tombol 2nd");
JTextArea myTextArea = new JTextArea("My First Text Area...",
5,30);
JCheckBox myCbxOne = new JCheckBox("Libur masih lama");
JCheckBox myCbxTwo = new JCheckBox("Libur agak dekat");
JCheckBox myCbxThree = new JCheckBox("Libur sudah dekat");
JCheckBox myCbxFour = new JCheckBox("Libur sudah tiba");
JRadioButton myRdoOne = new JRadioButton("Putera", true);
JRadioButton myRdoTwo = new JRadioButton("Puteri", false);
ButtonGroup grpRdo = new ButtonGroup();
grpRdo.add(myRdoOne);
grpRdo.add(myRdoTwo);
JList daftarHari = new JList(hari);
daftarHari.setSelectedIndex(0);
myPanel.add(myLabel);
myPanel.add(myButton);
myPanel.add(myNdButton);
myPanel.add(myTextArea);
myPanel.add(myCbxOne);
myPanel.add(myCbxTwo);
myPanel.add(myCbxThree);
myPanel.add(myCbxFour);
myPanel.add(myRdoOne);
myPanel.add(myRdoTwo);
myPanel.add(daftarHari);
myFrame.getContentPane().add(myPanel);
myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
myFrame.setSize(600,600);
myFrame.setVisible(true);
}
}

```

10. Tambahkan JComboBox pada GUI

```

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        String hari [] = {"Senin", "Selasa", "Rabu", "Kamis", "Jumat",
"Sabtu", "Ahad"};
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new                                BoxLayout(myPanel,
BoxLayout.Y_AXIS));
        JLabel myLabel = new JLabel("Bunga Ramadhani S");
        JButton myButton = new JButton("Tombol 1st");
        JButton myNdButton = new JButton("Tombol 2nd");

```

```

        JTextArea myTextArea = new JTextArea("My First Text Area...",
5,30);
        JCheckBox myCbxOne = new JCheckBox("Libur masih lama");
        JCheckBox myCbxTwo = new JCheckBox("Libur agak dekat");
        JCheckBox myCbxThree = new JCheckBox("Libur sudah dekat");
        JCheckBox myCbxFour = new JCheckBox("Libur sudah tiba");
        JRadioButton myRdoOne = new JRadioButton("Putera", true);
        JRadioButton myRdoTwo = new JRadioButton("Puteri", false);
        ButtonGroup grpRdo = new ButtonGroup();
        grpRdo.add(myRdoOne);
        grpRdo.add(myRdoTwo);
        JList daftarHari = new JList(hari);
        daftarHari.setSelectedIndex(0);
        JComboBox cbbHari = new JComboBox(hari);
        myFrame.getContentPane().add(myPanel);
        myPanel.add(myLabel);
        myPanel.add(myButton);
        myPanel.add(myNdButton);
        myPanel.add(myTextArea);
        myPanel.add(myCbxOne);
        myPanel.add(myCbxTwo);
        myPanel.add(myCbxThree);
        myPanel.add(myCbxFour);
        myPanel.add(myRdoOne);
        myPanel.add(myRdoTwo);
        myPanel.add(daftarHari);
        myPanel.add(cbbHari);
        myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        myFrame.setSize(600,600);
        myFrame.setVisible(true);
    }
}

```

11. Coba hapus kode layout

```

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        String hari [] = {"Senin", "Selasa", "Rabu", "Kamis", "Jumat",
"Sabtu", "Ahad"};
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        //myPanel.setLayout(new BoxLayout(myPanel,
BoxLayout.Y_AXIS));
        JLabel myLabel = new JLabel("Bunga Ramadhani S");
        JButton myButton = new JButton("Tombol 1st");
        JButton myNdButton = new JButton("Tombol 2nd");
        JTextArea myTextArea = new JTextArea("My First Text Area...",
5,30);
    }
}

```

```

JCheckBox myCbxOne = new JCheckBox("Libur masih lama");
JCheckBox myCbxTwo = new JCheckBox("Libur agak dekat");
JCheckBox myCbxThree = new JCheckBox("Libur sudah dekat");
JCheckBox myCbxFour = new JCheckBox("Libur sudah tiba");
JRadioButton myRdoOne = new JRadioButton("Putera", true);
JRadioButton myRdoTwo = new JRadioButton("Puteri", false);
ButtonGroup grpRdo = new ButtonGroup();
grpRdo.add(myRdoOne);
grpRdo.add(myRdoTwo);
JList daftarHari = new JList(hari);
daftarHari.setSelectedIndex(0);
JComboBox cbbHari = new JComboBox(hari);
myFrame.getContentPane().add(myPanel);
myPanel.add(myLabel);
myPanel.add(myButton);
myPanel.add(myNdButton);
myPanel.add(myTextArea);
myPanel.add(myCbxOne);
myPanel.add(myCbxTwo);
myPanel.add(myCbxThree);
myPanel.add(myCbxFour);
myPanel.add(myRdoOne);
myPanel.add(myRdoTwo);
myPanel.add(daftarHari);
myPanel.add(cbbHari);
myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
myFrame.setSize(600,600);
myFrame.setVisible(true);
    }
}

```

12. Tambahkan JOptionPane pada GUI

```

import javax.swing.*;

public class PraktikGUI {

    public static void main(String [] args){
        String hari [] = {"Senin", "Selasa", "Rabu", "Kamis", "Jumat",
        "Sabtu", "Ahad"};
        JFrame myFrame = new JFrame ("My First Frame");
        JPanel myPanel = new JPanel();
        myPanel.setLayout(new BoxLayout(myPanel,
        BoxLayout.Y_AXIS));
        JLabel myLabel = new JLabel("Bunga Ramadhani S");
        JButton myButton = new JButton("Tombol 1st");
        JButton myNdButton = new JButton("Tombol 2nd");
        JTextArea myTextArea = new JTextArea("My First Text Area...",
        5,30);
        JCheckBox myCbxOne = new JCheckBox("Libur masih lama");
        JCheckBox myCbxTwo = new JCheckBox("Libur agak dekat");
    }
}

```



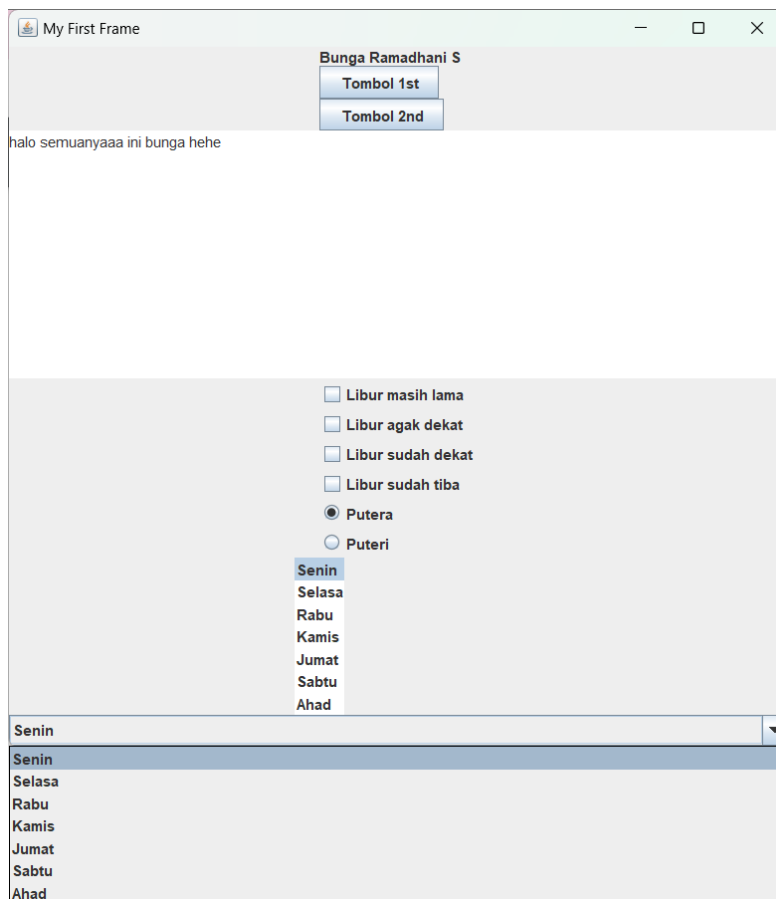
```

JCheckBox myCbxThree = new JCheckBox("Libur sudah dekat");
JCheckBox myCbxFour = new JCheckBox("Libur sudah tiba");
JRadioButton myRdoOne = new JRadioButton("Putera", true);
JRadioButton myRdoTwo = new JRadioButton("Puteri", false);
ButtonGroup grpRdo = new ButtonGroup();
grpRdo.add(myRdoOne);
grpRdo.add(myRdoTwo);
JList daftarHari = new JList(hari);
daftarHari.setSelectedIndex(0);
JComboBox cbbHari = new JComboBox(hari);
myFrame.getContentPane().add(myPanel);
myPanel.add(myLabel);
myPanel.add(myButton);
myPanel.add(myNdButton);
myPanel.add(myTextArea);
myPanel.add(myCbxOne);
myPanel.add(myCbxTwo);
myPanel.add(myCbxThree);
myPanel.add(myCbxFour);
myPanel.add(myRdoOne);
myPanel.add(myRdoTwo);
myPanel.add(daftarHari);
myPanel.add(cbbHari);
JOptionPane.showMessageDialog(null, "Peringatan sebentar lagi
libur !", "Warning", JOptionPane.WARNING_MESSAGE);
myFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
myFrame.setSize(600,600);
myFrame.setVisible(true);
    }
}

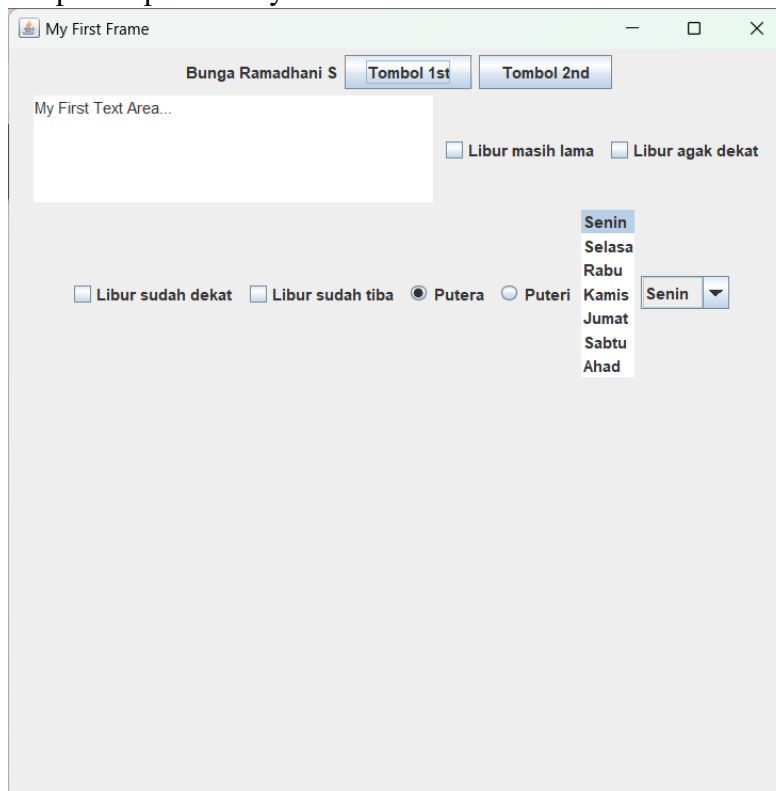
```

Output:

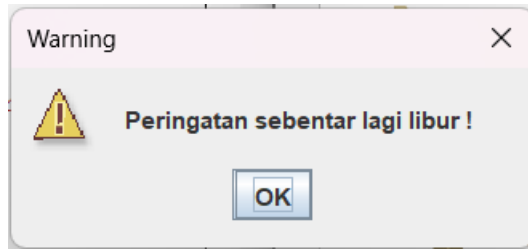
- Output dengan BoxLayout



- Output tanpa BoxLayout



- Output JOption



Penjelasan:

Jika dilihat, dalam output yang menggunakan BorderLayout, komponen lebih tersusun karena berada dalam satu arah yang sama. Kalau tanpa BorderLayout semua komponen disusun secara horizontal selama ruang cukup, baru setelah penuh dipindah ke baris bawah.

II. UNGUIDED

Buatlah suatu tampilan antar muka yang unik dan bagus untuk sebuah program. Cukup tampilannya saja. Cari Ide program yang sederhana dan unik.

Output:

PEMBELIAN TIKET KONSER

Nama Lengkap

NIK

Nomor Handphone

Tipe Tiket

Jumlah

PEMBELIAN TIKET KONSER

Nama Lengkap

NIK

Nomor Handphone

Tipe Tiket

Jumlah

Presale 1

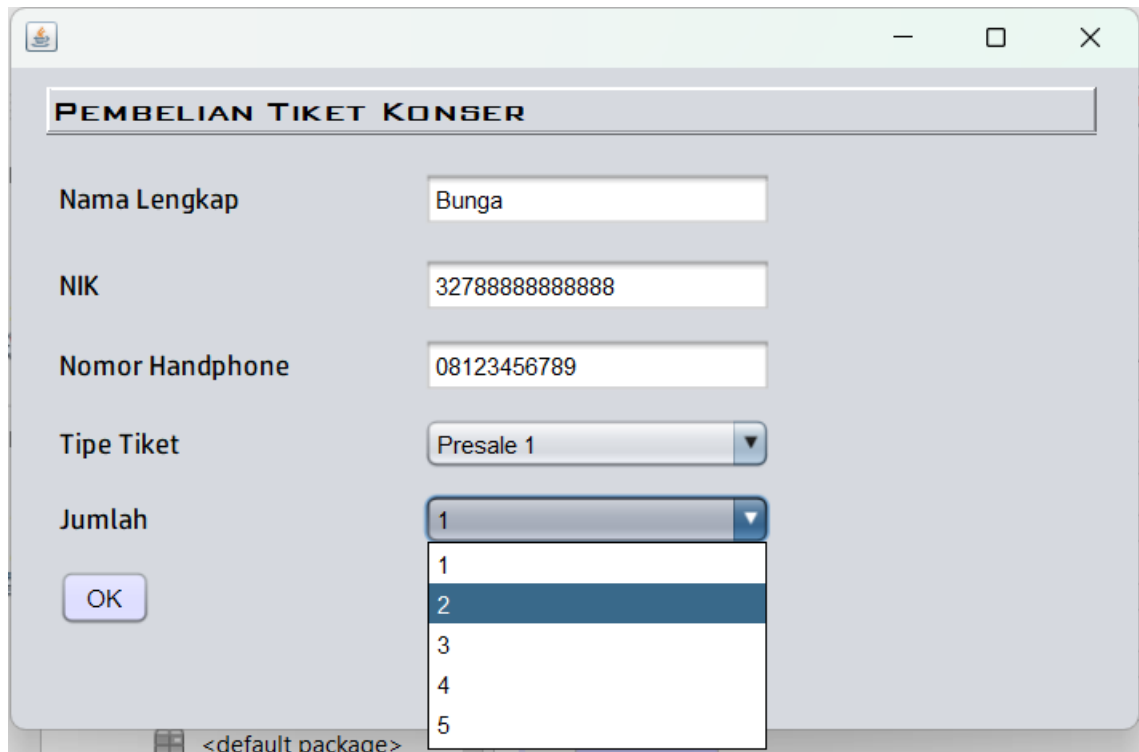
Early Bird

Presale 1

Presale 2

Festival

VIP



PEMBELIAN TIKET KONSER

Nama Lengkap: Bunga

NIK: 32788888888888

Nomor Handphone: 08123456789

Tipe Tiket: Presale 1

Jumlah: 1

OK

<default package>

Penjelasan:

Saya membuat tampilan interface untuk pembelian tiket konser. Sistem pembelian tiket konser ini menyediakan interface yang memungkinkan penggemar musik untuk mendaftar dengan mengisi data diri mereka seperti nama, NIK, dan nomor telepon. Setelah itu, mereka dapat memilih jenis tiket yang diinginkan (early bird, presale 1, presale 2, festival, atau VIP) beserta jumlahnya untuk menikmati pertunjukan artis favorit mereka.