

LAPORAN PRAKTIKUM
PEMROGRAMAN BERORIENTASI OBJEK
MODUL X
MATERI



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PROGRAM STUDI S1 SISTEM INFORMASI
FAKULTAS REKAYASA INDUSTRI
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I. Guided

Kode Program

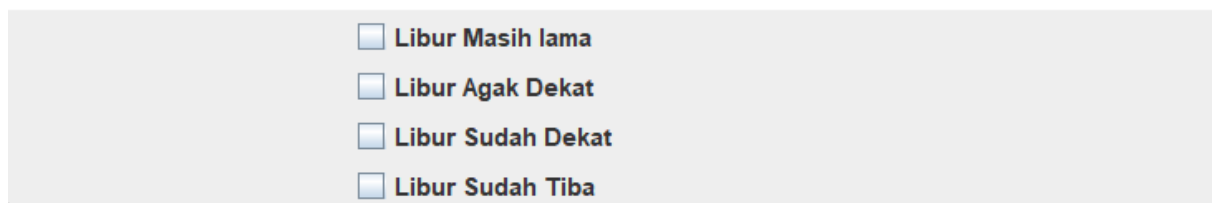
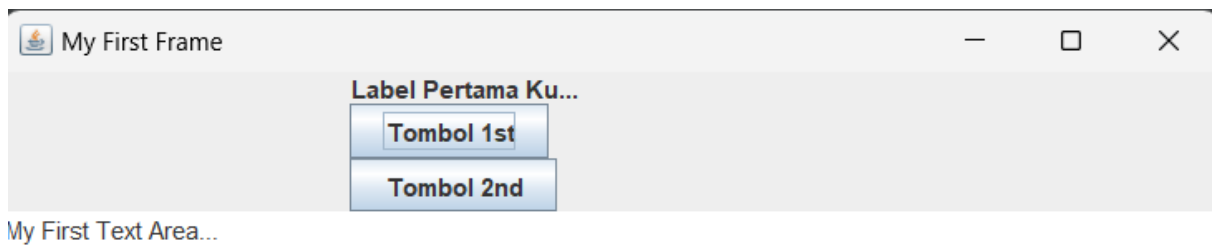
```
package latihangui;

/**
 *
 * @author Muhammad Raflan Kemal
 * 2311103132
 * 07C
 */

import javax.swing.*;

public class LatihanGUI {
    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("Label Pertama Ku...");
        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);
    }
}
```

Hasil Run

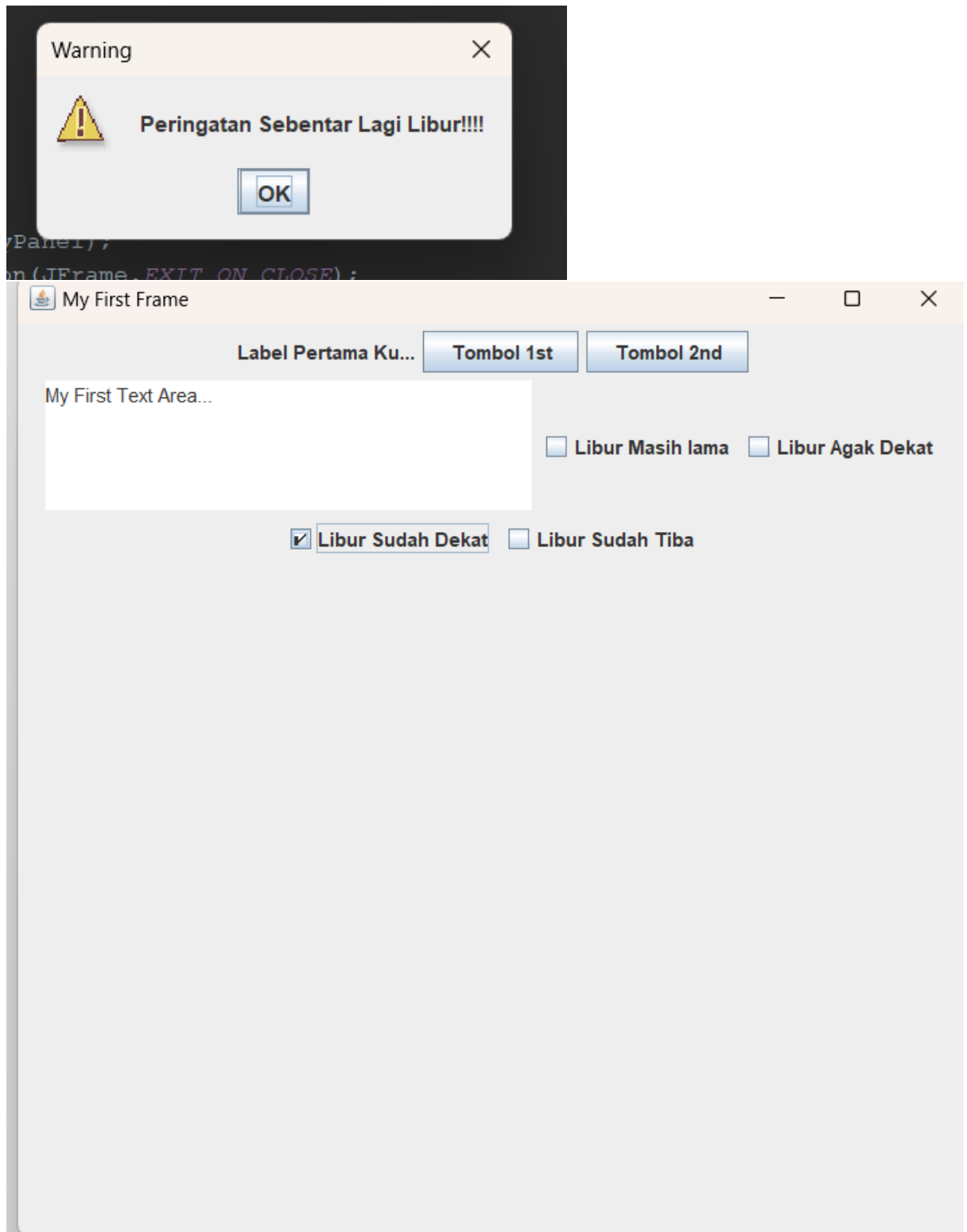


Dari kode diatas coba hapus kode layout

```
myPanel.setLayout(new BoxLayout (myPanel, BoxLayout.Y_AXIS));
```

Ganti dengan JOptionPane pada GUI

```
JOptionPane.showMessageDialog(null, "Peringatan Sebentar Lagi Libur!!!!",  
"Warning", JOptionPane.WARNING_MESSAGE);
```



Kode program di atas adalah sebuah program Java sederhana yang menggunakan pustaka Swing untuk membuat antarmuka pengguna grafis (GUI). Program ini membuat jendela aplikasi (frame) berjudul "My First Frame" yang berisi berbagai komponen GUI seperti label, tombol, area teks, dan checkbox. Sebelum GUI utama muncul, sebuah dialog peringatan ditampilkan dengan pesan "Peringatan Sebentar Lagi Libur!!!!" menggunakan JOptionPane. Komponen GUI, termasuk label, tombol, area teks

II. UNGUIDED

Kode Program

```
package latihangui;

/**
 *
 * @author Muhammad Raflan Kemal
 * 2311103132
 * 07C
 */
public class NewJFrame extends javax.swing.JFrame {

    /**
     * Creates new form NewJFrame
     */
    public NewJFrame() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jRadioButton1 = new javax.swing.JRadioButton();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jTextField4 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setText("FORM PERTUNJUKAN THEATER JKT48");

        jLabel2.setText("Nama");
```

```

jLabel3.setText("Tanggal Pertunjukan");

jLabel4.setText("Waktu Pertunjukan");

jLabel5.setText("Row");

jRadioButton1.setText("Konfirmasi Kehadiran");

jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

jButton1.setText("Masuk");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jRadioButton1,
                        javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(10, 10, 10)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jTextField1,
                                javax.swing.GroupLayout.PREFERRED_SIZE,
                                javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jButton1,
                                javax.swing.GroupLayout.PREFERRED_SIZE,
                                javax.swing.GroupLayout.PREFERRED_SIZE)
                        )
                    )
                )
            )
        )
    )
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jLabel3)
        .addGap(10, 10, 10)
        .addComponent(jLabel4)
        .addGap(10, 10, 10)
        .addComponent(jLabel5)
        .addContainerGap()
    )
);

```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING, false)
    .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE,           37,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3,
javax.swing.GroupLayout.DEFAULT_SIZE, 118, Short.MAX_VALUE)
    .addComponent(jLabel4,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE,           37,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING, false)
    .addComponent(jTextField1)
    .addComponent(jTextField2)
    .addComponent(jTextField3,
javax.swing.GroupLayout.DEFAULT_SIZE, 202, Short.MAX_VALUE)
    .addComponent(jTextField4))))))
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(155, 155, 155)
        .addComponent(jButton1))
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(86, 86, 86)
        .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE,           224,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap(46, Short.MAX_VALUE))
);
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel1)
        .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
    .addComponent(jLabel2)

```

<pre> .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)) .addGap(23, 23, 23) .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment. BASELINE) .addComponent(jLabel3) .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)) .addGap(21, 21, 21) .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment. BASELINE) .addComponent(jLabel4) .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)) .addGap(21, 21, 21) .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment. BASELINE) .addComponent(jLabel5) .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)) .addGap(31, 31, 31) .addComponent(jRadioButton1) .addGap(38, 38, 38) .addComponent(jButton1) .addContainerGap(85, Short.MAX_VALUE))); javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane()); getContentPane().setLayout(layout); layout.setHorizontalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING) .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)); layout.setVerticalGroup(</pre>	22,
--	-----


```

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
            );

        pack();
    } // </editor-fold>

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code
(optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look
and feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

```

```

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging
Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging
Level.SEVERE, null, ex);
    }
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new NewJFrame().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
private javax.swing.JRadioButton jRadioButton1;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
// End of variables declaration
}

```

FORM PERTUNJUKAN THEATER JKT48

Nama

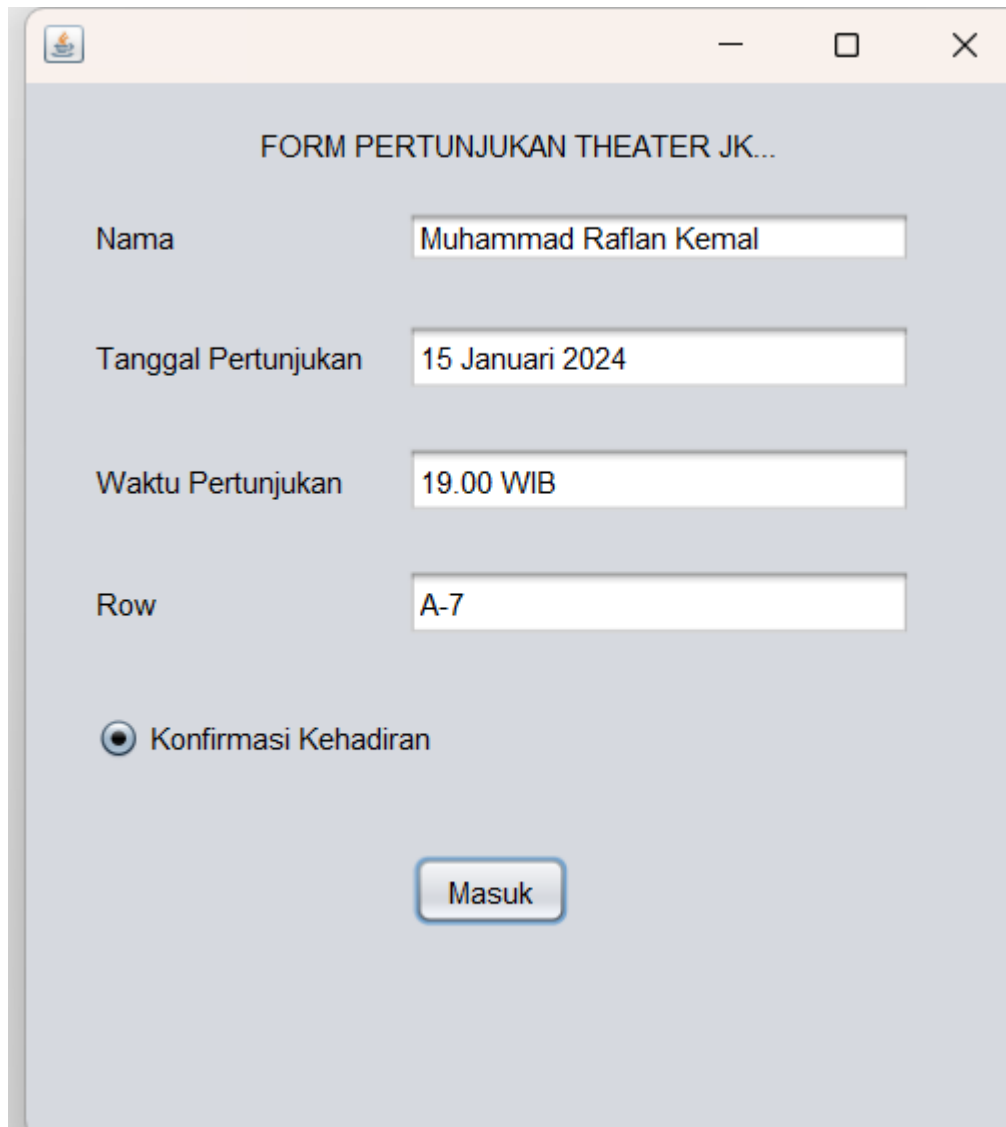
Tanggal Pertunjukan

Waktu Pertunjukan

Row

☐ Konfirmasi Kehadiran

Masuk



FORM PERTUNJUKAN THEATER JK...

Nama

Tanggal Pertunjukan

Waktu Pertunjukan

Row

☒ Konfirmasi Kehadiran

Program ini dibuat untuk menampilkan formulir konfirmasi kehadiran di pertunjukan teater JKT48. Saat dijalankan, aplikasi menampilkan sebuah jendela dengan judul dan beberapa elemen seperti label untuk memberikan informasi, kolom input untuk mengisi nama, tanggal, waktu, dan baris tempat duduk, serta sebuah tombol untuk mengonfirmasi kehadiran. Terdapat juga tombol "Masuk" yang memungkinkan pengguna mengirimkan data mereka. Semua komponen ini diatur dalam sebuah panel dan ditampilkan dalam jendela utama. Tampilan antarmuka menggunakan gaya Nimbus Look and Feel, yang memberikan desain yang lebih menarik. Program ini dirancang menggunakan Form Editor di NetBeans, sehingga sebagian besar kode komponen dihasilkan otomatis. Program mulai berjalan melalui metode main, menampilkan formulir ketika aplikasi dibuka.

