LATIHAN GUI

A. Guided

1. Buat project baru dengan LatihanP9**Nama**. Nama diganti dengan nama kalian, contoh :

   LatihanP9SenaWijayanto

2. Ubah kode program **PraktikGUI :**

```java
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

```java
JPanel myPanel = new JPanel ();

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

myFrame.getContentPane().add(myPanel);
```

4. Tambahkan JLabel pada GUI

```java
JLabel myLabel = new JLabel ("Label Pertama ku....");

myPanel.add(myLabel);
```

5. Tambahkan JButton pada GUI

```java
JButton myButton = new JButton("Tombol 1ST");

JButton myNdButton = new JButton("Tombol 2nd");

myPanel.add(myButton);

myPanel.add(myNdButton);
```

6. Tambahkan JTextField pada GUI

```java
JTextArea myTextArea = new JTextArea("My First Text Area...", 5,30);
```

```
myPanel.add(myTextArea);
```

7. Tambahkan JCheckBox pada GUI

```
JCheckBox myCheckBox = new JCheckBox("Libur Masih lama");

JCheckBox myCheckBoxTwo = new JCheckBox("Libur agak telat");

myPanel.add(myCheckBox);

myPanel.add(myCheckBoxTwo);
```

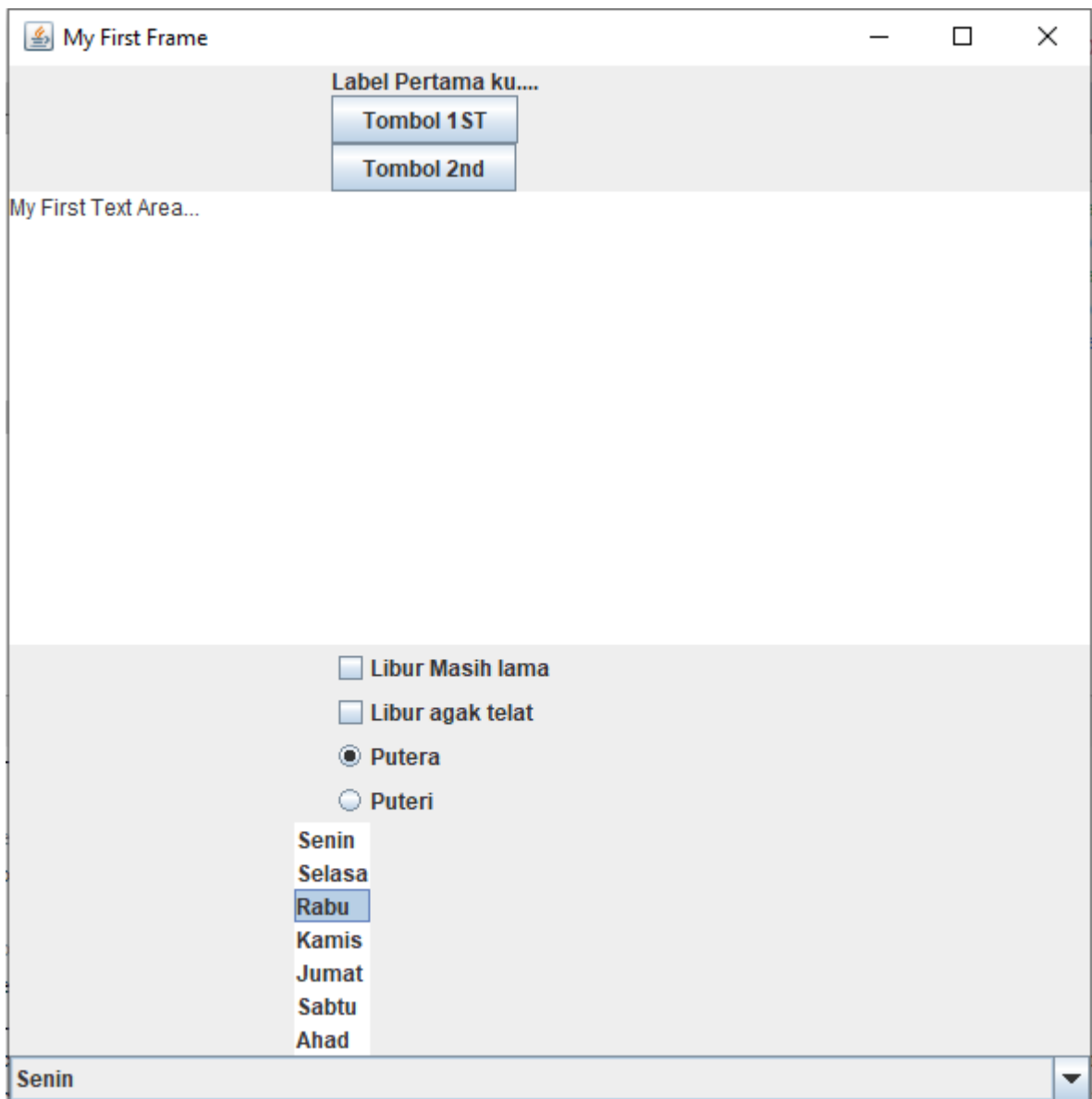8. Tambahkan JRadioButton dan ButtonGroup pada GUI

```
JRadioButton myRdoOne = new JRadioButton("Putera", true);

JRadioButton myRdoTwo = new JRadioButton("Puteri", false);

myPanel.add(myRdoOne);

myPanel.add(myRdoTwo);
```

9. Tambahkan JList pada GUI

```
String hari [] = {"Senin", "Selasa", "Rabu", "Kamis", "Jumat", "Sabtu", "Ahad"};

JList daftarHari = new JList(hari);

myPanel.add(daftarHari);
```

10. Tambahkan JComboBox pada GUI

```
JComboBox cbbHari = new JComboBox(hari);
myPanel.add(cbbHari);
```

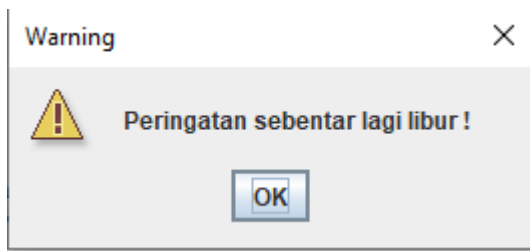Berikut merupakan output sementara dari code diatas.

11. Coba hapus code layout

```
myPanel.setLayout(new BoxLayout (myPanel, BoxLayout.Y_AXIS));
```
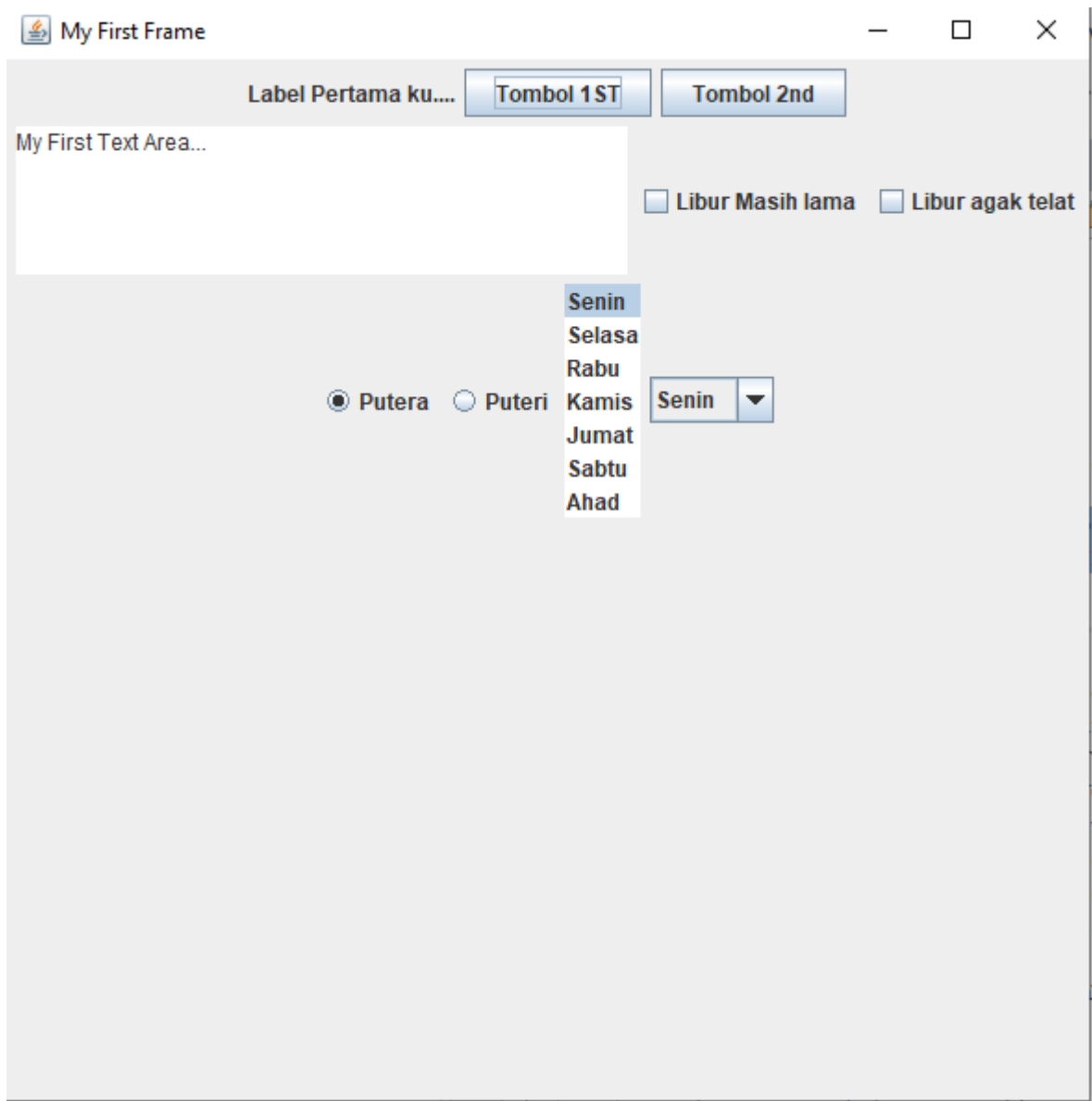
12. Ganti dengan JOptionPane pada GUI

```
JOptionPane.showMessageDialog(null, "Peringatan sebentar lagi libur !",

"Warning", JOptionPane.WARNING_MESSAGE);
```

Maka hasil nya akan menampilkan popup box seperti berikut :

Warning ×

⚠ Peringatan sebentar lagi libur !

OK

Lalu muncul frame seperti berikut :

My First Frame — □ ×

Label Pertama ku.... | Tombol 1ST | | Tombol 2nd |

My First Text Area...

☐ Libur Masih lama ☐ Libur agak telat

Senin
Selasa
Rabu
⦿ Putera ○ Puteri Kamis | Senin ▼ |
Jumat
Sabtu
Ahad

B. Unguided

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

Source code :

```
/*
```

```java
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
    to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to
    edit this template
 */
package com.mycompany.latihanui;


/**
 *
 * @author hanaf
 */
public class latihanFrame extends javax.swing.JFrame {


    /**
     * Creates new form latihanFrame
     */
    public latihanFrame() {

        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() {
```

```java
jPanel1 = new javax.swing.JPanel();

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

jTextField2 = new javax.swing.JTextField();

jLabel4 = new javax.swing.JLabel();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jRadioButton3 = new javax.swing.JRadioButton();

jLabel5 = new javax.swing.JLabel();

jTextField3 = new javax.swing.JTextField();

jLabel6 = new javax.swing.JLabel();

jTextField4 = new javax.swing.JTextField();

jCheckBox1 = new javax.swing.JCheckBox();

jButton1 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


jLabel1.setText("Form Pengajuan Barang");


jLabel2.setText("Nama");


jTextField1.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jTextField1ActionPerformed(evt);
```

```java
        }
    });


    jLabel3.setText("Nama Barang");


    jTextField2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField2ActionPerformed(evt);
        }
    });


    jLabel4.setText("Jenis Barang");


    jRadioButton1.setText("Alat Listrik");


    jRadioButton2.setText("Elektronik");
    jRadioButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jRadioButton2ActionPerformed(evt);
        }
    });


    jRadioButton3.setText("Alat Event");
    jRadioButton3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jRadioButton3ActionPerformed(evt);
        }
```

```java
    });

    jLabel5.setText("Tgl Peminjaman");

    jTextField3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField3ActionPerformed(evt);
        }
    });

    jLabel6.setText("Tgl Pengembalian");

    jTextField4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField4ActionPerformed(evt);
        }
    });

    jCheckBox1.setText("Menerima syarat dan konsekuensi yang berlaku");
    jCheckBox1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jCheckBox1ActionPerformed(evt);
        }
    });

    jButton1.setText("Pinjam");
```

```java
   javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);

 jPanel1.setLayout(jPanel1Layout);

 jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)

    .addGroup(jPanel1Layout.createSequentialGroup()

      .addGap(32, 32, 32)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

          .addComponent(jLabel5)

          .addComponent(jLabel6))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

          .addComponent(jTextField4,
javax.swing.GroupLayout.DEFAULT_SIZE, 425, Short.MAX_VALUE)

          .addComponent(jTextField3)))

        .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

          .addComponent(jLabel3)

          .addComponent(jLabel2)
```

```
                    .addComponent(jLabel4))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

            .addComponent(jTextField2)

            .addComponent(jTextField1)))

        .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addComponent(jRadioButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)

                .addComponent(jRadioButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)

                .addComponent(jRadioButton3))

            .addComponent(jCheckBox1,
javax.swing.GroupLayout.PREFERRED_SIZE, 242,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(0, 0, Short.MAX_VALUE)))

        .addGap(43, 43, 43))

    .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()
```

```java
            .addGap(236, 236, 236)

            .addComponent(jLabel1))

         .addGroup(jPanel1Layout.createSequentialGroup()

            .addGap(240, 240, 240)

            .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE)))

      .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
 );
 jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)

   .addGroup(jPanel1Layout.createSequentialGroup()

      .addGap(24, 24, 24)

      .addComponent(jLabel1)

      .addGap(37, 37, 37)


.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

         .addComponent(jLabel2)

         .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

      .addGap(18, 18, 18)


.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

         .addComponent(jLabel3)

         .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED_SIZE,
```

```java
            javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addComponent(jLabel4)

        .addGap(18, 18, 18)


.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

            .addComponent(jRadioButton1)

            .addComponent(jRadioButton2)

            .addComponent(jRadioButton3))

        .addGap(18, 18, 18)


.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

            .addComponent(jLabel5)

            .addComponent(jTextField3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)


.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

            .addComponent(jLabel6)

            .addComponent(jTextField4,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addComponent(jCheckBox1)

        .addGap(66, 66, 66)
```

```java
                .addComponent(jButton1)

                .addContainerGap(76, Short.MAX_VALUE))
        );



    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

    getContentPane().setLayout(layout);

    layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addGap(14, 14, 14)

            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addContainerGap(12, Short.MAX_VALUE))
        );

    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

            .addContainerGap(21, Short.MAX_VALUE)

            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addContainerGap())
        );



    pack();

}// </editor-fold>
```

```java
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jRadioButton3ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jCheckBox1ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:
```

```java
    }


    /**
     * @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(latihanFrame.class.getName()).log(java.util
l.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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


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


// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JCheckBox jCheckBox1;
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.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JRadioButton jRadioButton1;
```
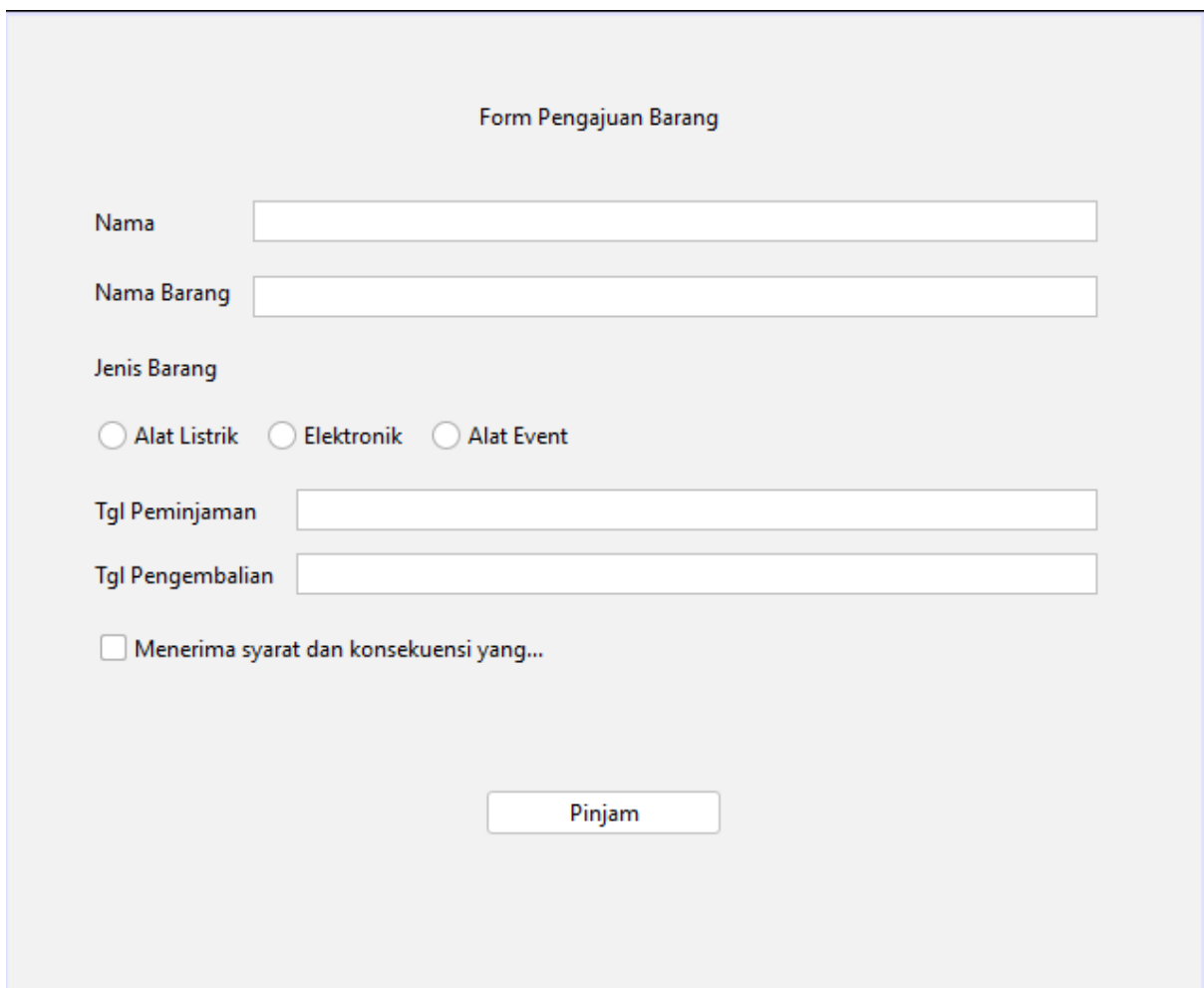
```
        private javax.swing.JRadioButton jRadioButton2;

        private javax.swing.JRadioButton jRadioButton3;

        private javax.swing.JTextField jTextField1;

        private javax.swing.JTextField jTextField2;

        private javax.swing.JTextField jTextField3;

        private javax.swing.JTextField jTextField4;

        // End of variables declaration

}
```

Pembuatan menggunakan cara drag & drop

Form Pengajuan Barang

Nama

Nama Barang

Jenis Barang

◯ Alat Listrik   ◯ Elektronik   ◯ Alat Event

Tgl Peminjaman

Tgl Pengembalian

☐ Menerima syarat dan konsekuensi yang...

Pinjam

Output :

Berikut merupakan tampilan program peminjaman pengajuan barang, terdapat nama, nama barang yang dipinjam, jenis barang yang terdapat radio button, tanggal peminjaman dan pengembalian, terdapat checkbox serta button.