Nama : Abdan Syakur

Kelas : 4IA26

NPM : 50421002

Praktikum : Rekayasa Perangkat Lunak 2

Listing

```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 act5;

/**
 *
 * @author abdan
 */
public class latihan extends javax.swing.JFrame {

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

        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jComboBox1 = new javax.swing.JComboBox<>();
        jTextField3 = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
```

```java
        jLabel5 = new javax.swing.JLabel();
        Simpan = new javax.swing.JButton();
        Edit = new javax.swing.JButton();
        Hapus = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setText("Input Latihan");

        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Menurunkan Berat Badan", "Menaikan Berat Badan" }));
        jComboBox1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jComboBox1ActionPerformed(evt);
            }
        });

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

        jLabel2.setText("Jenis Latihan");

        jLabel3.setText("Nama");

        jLabel4.setText("Gerakan");

        jLabel5.setText("Waktu Latihan");

        Simpan.setText("Simpan");

        Edit.setText("Edit");

        Hapus.setText("Hapus");

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

```java
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(141, 141, 141)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 37, javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGap(131, 131, 131)
                                .addComponent(jTextField1))
                            .addGroup(layout.createSequentialGroup()
                                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 75, javax.swing.GroupLayout.PREFERRED_SIZE)
                                    .addComponent(jLabel4)
                                    .addComponent(jLabel5))
                                .addGap(92, 92, 92)
                                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                    .addComponent(jComboBox1, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                    .addComponent(jTextField2)
                                    .addComponent(jTextField3)
                                    .addGroup(layout.createSequentialGroup()
                                        .addComponent(Simpan)
                                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                                        .addComponent(Edit)
                                        .addGap(12, 12, 12)
                                        .addComponent(Hapus)
                                        .addGap(0, 0, Short.MAX_VALUE))))))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(422, 422, 422)
                        .addComponent(jLabel1)))
                .addContainerGap(650, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(44, 44, 44)
                .addComponent(jLabel1)
                .addGap(51, 51, 51)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.
                        .addGap(26, 26, 26)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLay
                            .addComponent(jLabel2))
                        .addGap(28, 28, 28)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayo
                            .addComponent(jLabel4)))
                    .addComponent(jLabel3))
                .addGap(35, 35, 35)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PR
                    .addComponent(jLabel5))
                .addGap(28, 28, 28)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(Simpan)
                    .addComponent(Edit)
                    .addComponent(Hapus))
                .addContainerGap(273, Short.MAX_VALUE))
        );

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

```java
    private void SimpanActionPerformed(java.awt.event.ActionEvent evt) {
        String nama = jTextField1.getText();
        String jenisLatihan = (String) jComboBox1.getSelectedItem();
        String gerakan = jTextField2.getText();
        String waktuLatihan = jTextField3.getText();

        if (nama.isEmpty() || gerakan.isEmpty() || waktuLatihan.isEmpty()) {
            JOptionPane.showMessageDialog(this, "Semua field harus diisi!", "Error", JOptionPane.ERROR_MESSAGE);
        } else {
            // Simpan data (bisa disimpan ke database atau struktur data)
            JOptionPane.showMessageDialog(this, "Data berhasil disimpan!", "Informasi", JOptionPane.INFORMATION_MESSAGE);
        }
    }

    private void EditActionPerformed(java.awt.event.ActionEvent evt) {
        String nama = jTextField1.getText();
        String jenisLatihan = (String) jComboBox1.getSelectedItem();
        String gerakan = jTextField2.getText();
        String waktuLatihan = jTextField3.getText();

        if (nama.isEmpty() || gerakan.isEmpty() || waktuLatihan.isEmpty()) {
            JOptionPane.showMessageDialog(this, "Semua field harus diisi!", "Error", JOptionPane.ERROR_MESSAGE);
        } else {
            // Edit data (misalnya memperbarui data yang sudah ada)
            JOptionPane.showMessageDialog(this, "Data berhasil diperbarui!", "Informasi", JOptionPane.INFORMATION_MESSAGE);
        }
    }

    private void HapusActionPerformed(java.awt.event.ActionEvent evt) {
        // Clear all text fields and combo box
        jTextField1.setText("");
        jTextField2.setText("");
        jTextField3.setText("");
        jComboBox1.setSelectedIndex(0);

        JOptionPane.showMessageDialog(this, "Data berhasil dihapus!", "Informasi", JOptionPane.INFORMATION_MESSAGE);
    }

    private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String nama = jTextField1.getText();
        String jenisLatihan = (String) jComboBox1.getSelectedItem();
        String gerakan = jTextField2.getText();
        String waktuLatihan = jTextField3.getText();

        if (nama.isEmpty() || gerakan.isEmpty() || waktuLatihan.isEmpty()) {
            JOptionPane.showMessageDialog(this, "Semua field harus diisi!", "Error", JOptionPane.ERROR_MESSAGE);
        } else {
            // Edit data (misalnya memperbarui data yang sudah ada)
            JOptionPane.showMessageDialog(this, "Data berhasil diperbarui!", "Informasi", JOptionPane.INFORMATION_MESSAGE);
        }
    }
        // Action for the 'Hapus' button
    private void HapusActionPerformed() {
        // Clear all text fields and combo box
        jTextField1.setText("");
        jTextField2.setText("");
        jTextField3.setText("");
        jComboBox1.setSelectedIndex(0);

        JOptionPane.showMessageDialog(this, "Data berhasil dihapus!", "Informasi", JOptionPane.INFORMATION_MESSAGE);
    }

    /**
     * @param args the command line arguments
     */
```

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

    // Variables declaration - do not modify
    private javax.swing.JButton Edit;
    private javax.swing.JButton Hapus;
    private javax.swing.JButton Simpan;
    private javax.swing.JComboBox<String> jComboBox1;
    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.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    // End of variables declaration
}
```

Output

run:
BUILD SUCCESSFUL (total time: 24 seconds)

Input Latihan

Nama

abdan syakur

Jenis Latihan

Menurunkan Berat Badan

Gerakan

push up

Waktu Latihan

tujuh hari tujuh malam

Simpan   Edit   Hapus