



```
/*
 * 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
 */

/**
 *
 * @author taxia
 */

public class FutureValueGUI extends javax.swing.JFrame {

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

        javax.swing.JLabel lblinvestment = new javax.swing.JLabel();
        textinvestment = new javax.swing.JTextField();
        javax.swing.JLabel lblrate = new javax.swing.JLabel();
        textrate = new javax.swing.JTextField();
        lblWelcome = new javax.swing.JLabel();
        javax.swing.JButton btnOK = new javax.swing.JButton();
        javax.swing.JButton btnClear = new javax.swing.JButton();
        lblyears = new javax.swing.JLabel();
        textyears = new javax.swing.JTextField();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Welcome");
        setMinimumSize(new java.awt.Dimension(498, 438));

        lblinvestment.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N
        lblinvestment.setText("Investment");

        textinvestment.setFont(new java.awt.Font("Segoe Print", 1, 14)); //
NOI18N
        textinvestment.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                textinvestmentActionPerformed(evt);
            }
        });
    }
}
```

```
lbrate.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N
lbrate.setText("Rate");

textrate.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N

lbWelcome.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N

btnOK.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N
btnOK.setText("OK");
btnOK.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnOKActionPerformed(evt);
    }
});

btnClear.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N
btnClear.setText("Clear");
btnClear.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnClearActionPerformed(evt);
    }
});

lbyears.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N
lbyears.setText("Years");

textyears.setFont(new java.awt.Font("Segoe Print", 1, 14)); // NOI18N

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(textinvestment)
        .addGroup(layout.createSequentialGroup()
            .addGap(77, 77, 77)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(lbWelcome, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE, Short.MAX_VALUE)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(btnOK,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 100,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(18, 18, 18)
                    .addComponent(btnClear,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 96,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(0, 0, Short.MAX_VALUE)))
            .addGroup(layout.createSequentialGroup()
                .addGap(0, 0, Short.MAX_VALUE))
            .addComponent(lbyears)
        )
);
```

```
        .addGap(0, 0, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(textrate,
            javax.swing.GroupLayout.PREFERRED_SIZE, 498,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(textyears,
            javax.swing.GroupLayout.PREFERRED_SIZE, 492,
            javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
            Short.MAX_VALUE))
    );

    layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new
        java.awt.Component[] {btnClear, btnOK});

    layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new
        java.awt.Component[] {lbinvestment, lbrate, lbyears});

    layout.linkSize(javax.swing.SwingConstants.HORIZONTAL, new
        java.awt.Component[] {textrate, textyears});

    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(lbinvestment)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(textinvestment,
                javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(lbrate)
            .addGap(18, 18, 18)
            .addComponent(textrate, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(lbyears)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(textyears, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

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

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 147,
            Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(btnOK)
            .addComponent(btnClear))
        .addContainerGap())
```

```
        layout.linkSize(javax.swing.SwingConstants.VERTICAL, new
java.awt.Component[] {textrate, textyears});

        lbinvestment.getAccessibleContext().setAccessibleName("Investement");

        pack();
    } // </editor-fold> // GEN-END: initComponents

    private void btnOKActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_btnOKActionPerformed

        double inv = Double.parseDouble(textinvestment.getText());
        double rate = Double.parseDouble(textrate.getText());
        int years = Integer.parseInt(textyears.getText());
        double monthlyinv = (rate/12)/100;
        double futureinv = 0;
        for (int i = 0; i < years*12; i++)
        {
            futureinv = (futureinv + inv) * (1 + monthlyinv);
        }
        lbWelcome.setText("The total Investement is " + futureinv);

    } // GEN-LAST: event_btnOKActionPerformed

    private void btnClearActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_btnClearActionPerformed
        textinvestment.setText("");
        textrate.setText("");
        textyears.setText("");
        lbWelcome.setText("");
    } // GEN-LAST: event_btnClearActionPerformed

    private void textinvestmentActionPerformed(java.awt.event.ActionEvent evt)
    { // GEN-FIRST: event_textinvestmentActionPerformed
        // TODO add your handling code here:
    } // GEN-LAST: event_textinvestmentActionPerformed

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {

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

    // Variables declaration - do not modify // GEN-BEGIN: variables
    private javax.swing.JLabel lbWelcome;
```

```
private javax.swing.JLabel lbyears;  
private javax.swing.JTextField textinvestment;  
private javax.swing.JTextField textrate;  
private javax.swing.JTextField textyears;  
// End of variables declaration//GEN-END:variables
```

```
}
```

Αυτό είναι το αρχείο README του έργου. Στο αρχείο αυτό θα ήταν καλό να περιγράψετε το έργο. Περιγράψτε στον χρήστη (κάποιον που δεν γνωρίζει τίποτα για το έργο) ό,τι χρειάζεται να γνωρίζει. Τα σχόλιά σας θα πρέπει περιέχουν τουλάχιστον τις παρακάτω κατηγορίες:

ΤΙΤΛΟΣ ΕΡΓΟΥ:

ΣΚΟΠΟΣ ΤΟΥ ΕΡΓΟΥ:

ΕΚΔΟΣΗ ή ΗΜΕΡΟΜΗΝΙΑ:

ΠΩΣ ΝΑ ΤΡΕΞΕΤΕ ΤΟ ΕΡΓΟ:

ΔΗΜΙΟΥΡΓΟΙ:

ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ: