**CUSTOMER LOAN ASSISTANT PROJECT**

LoanAssistant.java

PROGRAM:

package loanassistant;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.text.\*;

public class LoanAssistant extends javax.swing.JFrame {

Font myFont = new Font("Arial", Font.PLAIN, 16);

Color lightYellow = new Color(255, 255, 128);

boolean computePayment;

public LoanAssistant() {

initComponents();

}

public void LoanAssistant(){

*// frame constructor*

setTitle("Loan Assistant");

setResizable(false);

addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent evt)

{

exitForm(evt);

}

});

getContentPane().setLayout(new GridBagLayout());

GridBagConstraints gridConstraints;

jLabel1.setText("Loan Balance");

jLabel1.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 0;

gridConstraints.gridy = 0;

gridConstraints.anchor = GridBagConstraints.WEST;

gridConstraints.insets = new Insets(10, 10, 0, 0);

getContentPane().add(jLabel1, gridConstraints);

jTextField1.setPreferredSize(new Dimension(100, 25));

jTextField1.setHorizontalAlignment(SwingConstants.RIGHT);

jTextField1.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 1;

gridConstraints.gridy = 0;

gridConstraints.insets = new Insets(10, 10, 0, 10);

getContentPane().add(jTextField1, gridConstraints);

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

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

jTextField1ActionPerformed(evt);

}

});

jLabel2.setText("Interest Rate");

jLabel2.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 0;

gridConstraints.gridy = 1;

gridConstraints.anchor = GridBagConstraints.WEST;

gridConstraints.insets = new Insets(10, 10, 0, 0);

getContentPane().add(jLabel2, gridConstraints);

jTextField2.setPreferredSize(new Dimension(100, 25));

jTextField2.setHorizontalAlignment(SwingConstants.RIGHT);

jTextField2.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 1;

gridConstraints.gridy = 1;

gridConstraints.insets = new Insets(10, 10, 0, 10);

getContentPane().add(jTextField2, gridConstraints);

jTextField2.addActionListener(new java.awt.event.ActionListener() {

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

jTextField2ActionPerformed(evt);

}

});

jLabel4.setText("Number of Payments");

jLabel4.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 0;

gridConstraints.gridy = 2;

gridConstraints.anchor = GridBagConstraints.WEST;

gridConstraints.insets = new Insets(10, 10, 0, 0);

getContentPane().add(jLabel4, gridConstraints);

jTextField3.setPreferredSize(new Dimension(100, 25));

jTextField3.setHorizontalAlignment(SwingConstants.RIGHT);

jTextField3.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 1;

gridConstraints.gridy = 2;

gridConstraints.insets = new Insets(10, 10, 0, 10);

getContentPane().add(jTextField3, gridConstraints);

jTextField3.addActionListener(new java.awt.event.ActionListener() {

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

jTextField3ActionPerformed(evt);

}

});

jLabel5.setText("Monthly Payment");

jLabel5.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 0;

gridConstraints.gridy = 3;

gridConstraints.anchor = GridBagConstraints.WEST;

gridConstraints.insets = new Insets(10, 10, 0, 0);

getContentPane().add(jLabel5, gridConstraints);

jTextField4.setPreferredSize(new Dimension(100, 25));

jTextField4.setHorizontalAlignment(SwingConstants.RIGHT);

jTextField4.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 1;

gridConstraints.gridy = 3;

gridConstraints.insets = new Insets(10, 10, 0, 10);

getContentPane().add(jTextField4, gridConstraints);

jTextField4.addActionListener(new java.awt.event.ActionListener() {

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

jTextField4ActionPerformed(evt);

}

});

jButton1.setText("Compute Monthly Payment");

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 0;

gridConstraints.gridy = 4;

gridConstraints.gridwidth = 2;

gridConstraints.insets = new Insets(10, 0, 0, 0);

getContentPane().add(jButton1, gridConstraints);

jButton1.addActionListener(new java.awt.event.ActionListener() {

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("New Loan Analysis");

jButton2.setEnabled(false);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 0;

gridConstraints.gridy = 5;

gridConstraints.gridwidth = 2;

gridConstraints.insets = new Insets(10, 0, 10, 0);

getContentPane().add(jButton2, gridConstraints);

jButton2.addActionListener(new java.awt.event.ActionListener() {

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("X");

jButton3.setFocusable(false);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 2;

gridConstraints.gridy = 2;

gridConstraints.insets = new Insets(10, 0, 0, 0);

getContentPane().add(jButton3, gridConstraints);

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("X");

jButton4.setFocusable(false);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 2;

gridConstraints.gridy = 3;

gridConstraints.insets = new Insets(10, 0, 0, 0);

getContentPane().add(jButton4, gridConstraints);

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jLabel6.setText("Loan Analysis:");

jLabel6.setFont(myFont);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 3;

gridConstraints.gridy = 0;

gridConstraints.anchor = GridBagConstraints.WEST;

gridConstraints.insets = new Insets(0, 10, 0, 0);

getContentPane().add(jLabel6, gridConstraints);

jTextArea2.setPreferredSize(new Dimension(250, 150));

jTextArea2.setFocusable(false);

jTextArea2.setBorder(BorderFactory.createLineBorder(Color.BLACK));

jTextArea2.setFont(new Font("Courier New", Font.PLAIN, 14));

jTextArea2.setEditable(false);

jTextArea2.setBackground(Color.WHITE);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 3;

gridConstraints.gridy = 1;

gridConstraints.gridheight = 4;

gridConstraints.insets = new Insets(0, 10, 0, 10);

getContentPane().add(jTextArea2, gridConstraints);

jButton5.setText("Exit");

jButton5.setFocusable(false);

gridConstraints = new GridBagConstraints();

gridConstraints.gridx = 3;

gridConstraints.gridy = 5;

getContentPane().add(jButton5, gridConstraints);

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

pack();

Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();

setBounds((int) (0.5 \* (screenSize.width - getWidth())), (int) (0.5 \* (screenSize.height - getHeight())), getWidth(), getHeight());

jButton4.doClick();

}

private void exitForm(WindowEvent evt)

{

System.exit(0);

}

private void jTextField1ActionPerformed(ActionEvent evt)

{

jTextField1.transferFocus();

}

private void jTextField2ActionPerformed(ActionEvent evt)

{

jTextField2.transferFocus();

}

private void jTextField3ActionPerformed(ActionEvent evt)

{

jTextField3.transferFocus();

}

private void jTextField4ActionPerformed(ActionEvent evt)

{

jTextField4.transferFocus();

}

private boolean validateDecimalNumber(JTextField tf)

{

*/\*checks to see if text field contains valid decimal number with only digits and a single decimal point\*/*

String s = tf.getText().trim();

boolean hasDecimal = false;

boolean valid = true;

if (s.length() == 0)

{

valid = false;

}

else

{

for (int i = 0; i < s.length(); i++)

{

char c = s.charAt(i);

if (c >= '0' && c <= '9')

{

continue;

}

else if (c == '.' && !hasDecimal)

{

hasDecimal = true;

}

else

{

valid = false;

}

}

}

tf.setText(s);

if (!valid)

{

tf.requestFocus();

}

return (valid);

}

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jTextField3 = new javax.swing.JTextField();

jTextField4 = new javax.swing.JTextField();

jLabel5 = new javax.swing.JLabel();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jLabel6 = new javax.swing.JLabel();

jScrollPane2 = new javax.swing.JScrollPane();

jTextArea2 = new javax.swing.JTextArea();

jButton5 = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Arial", 0, 16));

jLabel1.setText("Loan Balance");

jLabel1.setAlignmentY(0.0F);

jLabel2.setFont(new java.awt.Font("Arial", 0, 16));

jLabel2.setText("Interest Rate");

jLabel2.setAlignmentY(1.0F);

jLabel4.setFont(new java.awt.Font("Arial", 0, 16));

jLabel4.setText("Number of Payments");

jLabel4.setAlignmentY(2.0F);

jTextField1.setFont(new java.awt.Font("Arial", 0, 16));

jTextField1.setAlignmentX(1.0F);

jTextField1.setAlignmentY(0.0F);

jTextField2.setFont(new java.awt.Font("Arial", 0, 16));

jTextField2.setAlignmentX(1.0F);

jTextField2.setAlignmentY(1.0F);

jTextField3.setFont(new java.awt.Font("Arial", 0, 16));

jTextField3.setAlignmentX(1.0F);

jTextField3.setAlignmentY(2.0F);

jTextField4.setFont(new java.awt.Font("Arial", 0, 16));

jTextField4.setAlignmentX(1.0F);

jTextField4.setAlignmentY(3.0F);

jLabel5.setFont(new java.awt.Font("Arial", 0, 16));

jLabel5.setText("Monthly Payment");

jLabel5.setAlignmentY(3.0F);

jButton2.setFont(new java.awt.Font("Arial", 0, 11));

jButton2.setText("New Loan Analysis");

jButton2.setAlignmentY(5.0F);

jButton2.addActionListener(new java.awt.event.ActionListener() {

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("X");

jButton3.setAlignmentX(2.0F);

jButton3.setAlignmentY(2.0F);

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("X");

jButton4.setAlignmentY(5.0F);

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jLabel6.setFont(new java.awt.Font("Arial", 0, 16));

jLabel6.setText("Loan Analysis:");

jLabel6.setAlignmentX(3.0F);

jLabel6.setAlignmentY(0.0F);

jTextArea2.setEditable(false);

jTextArea2.setColumns(20);

jTextArea2.setFont(new java.awt.Font("Courier New", 0, 14));

jTextArea2.setRows(5);

jTextArea2.setAlignmentX(3.0F);

jTextArea2.setAlignmentY(1.0F);

jTextArea2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jScrollPane2.setViewportView(jTextArea2);

jButton5.setFont(new java.awt.Font("Arial", 1, 11));

jButton5.setText("Exit");

jButton5.setAlignmentX(3.0F);

jButton5.setAlignmentY(5.0F);

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

jButton1.setFont(new java.awt.Font("Arial", 1, 11));

jButton1.setText("Compute Monthly Payment");

jButton1.setAlignmentY(4.0F);

jButton1.addActionListener(new java.awt.event.ActionListener() {

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

jButton1ActionPerformed(evt);

}

});

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(52, 52, 52)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jLabel3)

.addComponent(jLabel1))

.addComponent(jLabel5)

.addComponent(jLabel2)

.addComponent(jLabel4))

.addGap(32, 32, 32)

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

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addGroup(layout.createSequentialGroup()

.addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton4))

.addGroup(layout.createSequentialGroup()

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(30, 30, 30)

.addComponent(jButton3)))))

.addGroup(layout.createSequentialGroup()

.addGap(132, 132, 132)

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

.addGap(102, 102, 102)

.addComponent(jButton1)))

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

.addGroup(layout.createSequentialGroup()

.addGap(85, 85, 85)

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

.addComponent(jLabel6)

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, 250, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(121, Short.MAX\_VALUE))

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5)

.addGap(211, 211, 211))))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(29, 29, 29)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 25, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel6))

.addGap(18, 18, 18)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, 150, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(10, 10, 10))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 25, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addComponent(jLabel3)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel4)

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 25, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton3))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, 25, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 31, Short.MAX\_VALUE)

.addComponent(jButton1)))

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

.addGroup(layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jButton5)))

.addContainerGap(142, Short.MAX\_VALUE))

);

pack();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)

{

double balance, interest, payment;

int months;

double monthlyInterest, multiplier;

double loanBalance, finalPayment;

if (validateDecimalNumber(jTextField1))

{

balance = Double.parseDouble(jTextField1.getText());

}

else

{

JOptionPane.showConfirmDialog(null, "Invalid or empty Loan Balance entry.\nPlease correct.", "Balance Input Error", JOptionPane.DEFAULT\_OPTION,JOptionPane.INFORMATION\_MESSAGE);

return;

}

if (validateDecimalNumber(jTextField2))

{

interest = Double.parseDouble(jTextField2.getText());

}

else

{

JOptionPane.showConfirmDialog(null, "Invalid or empty Interest Rate entry.\nPlease correct.", "Interest Input Error", JOptionPane.DEFAULT\_OPTION,JOptionPane.INFORMATION\_MESSAGE);

return;

}

monthlyInterest = interest / 1200;

if (computePayment)

{

// Compute loan payment

if (validateDecimalNumber(jTextField3))

{

months =Integer.parseInt(jTextField3.getText());

}

else

{

JOptionPane.showConfirmDialog(null, "Invalid or empty Number of Payments entry.\nPlease correct.", "Number of Payments Input Error",

JOptionPane.DEFAULT\_OPTION, JOptionPane.INFORMATION\_MESSAGE);

return;

}

if (interest == 0)

{

payment = balance / months;

}

else

{

multiplier = Math.pow(1 + monthlyInterest, months);

payment = balance \* monthlyInterest \* multiplier / (multiplier - 1);

}

jTextField4.setText(new DecimalFormat("0.00").format(payment));

}

else

{

// Compute number of payments

if (validateDecimalNumber(jTextField4))

{

payment =Double.parseDouble(jTextField4.getText());

if (payment <= (balance \* monthlyInterest + 1.0))

{

if (JOptionPane.showConfirmDialog(null, "Minimum payment must be $" +new DecimalFormat("0.00").format((int)(balance \* monthlyInterest + 1.0)) + "\n" + "Do you want to use the minimum payment?", "Input Error", JOptionPane.YES\_NO\_OPTION,

JOptionPane.QUESTION\_MESSAGE) == JOptionPane.YES\_OPTION)

{

jTextField4.setText(new DecimalFormat("0.00").format((int)(balance \*monthlyInterest + 1.0)));

payment =Double.parseDouble(jTextField4.getText());

}

else

{

jTextField4.requestFocus();

return;

}

}

}

else

{

JOptionPane.showConfirmDialog(null, "Invalid or empty Monthly Payment entry.\nPlease correct.", "Payment Input Error", JOptionPane.DEFAULT\_OPTION,JOptionPane.INFORMATION\_MESSAGE);

return;

}

if (interest == 0)

{

months = (int)(balance / payment);

}

else

{

months = (int)((Math.log(payment) - Math.log(payment - balance \* monthlyInterest)) / Math.log(1 + monthlyInterest));

}

jTextField3.setText(String.valueOf(months));

}

*// reset payment prior to analysis to fix at two decimals*

payment = Double.parseDouble(jTextField4.getText());

*// show analysis*

jTextArea2.setText("Loan Balance: $" + new DecimalFormat("0.00").format(balance));

jTextArea2.append("\n" + "Interest Rate: " + new DecimalFormat("0.00").format(interest) + "%");

*// process all but last payment*

loanBalance = balance;

for (int paymentNumber = 1; paymentNumber <= months - 1; paymentNumber++)

{

loanBalance += loanBalance \* monthlyInterest - payment;

}

*// find final payment*

finalPayment = loanBalance;

if (finalPayment > payment)

{

*// apply one more payment*

loanBalance += loanBalance \* monthlyInterest - payment;

finalPayment = loanBalance;

months++;

jTextField3.setText(String.valueOf(months));

}

jTextArea2.append("\n\n" + String.valueOf(months - 1) + " Payments of $" + new

DecimalFormat("0.00").format(payment));

jTextArea2.append("\n" + "Final Payment of: $" + new

DecimalFormat("0.00").format(finalPayment));

jTextArea2.append("\n" + "Total Payments: $" + new

DecimalFormat("0.00").format((months - 1) \* payment + finalPayment));

jTextArea2.append("\n" + "Interest Paid $" + new

DecimalFormat("0.00").format((months - 1) \* payment + finalPayment - balance));

jButton1.setEnabled(false);

jButton2.setEnabled(true);

jButton2.requestFocus();

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)

{

*// clear computed value and analysis*

if (computePayment)

{

jTextField4.setText("");

}

else

{

jTextField3.setText("");

}

jTextArea2.setText("");

jButton1.setEnabled(true);

jButton2.setEnabled(false);

jTextField1.requestFocus();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

*// will compute months*

computePayment = false;

jButton4.setVisible(true);

jButton3.setVisible(false);

jTextField3.setText("");

jTextField3.setEditable(false);

jTextField3.setBackground(lightYellow);

jTextField3.setFocusable(false);

jTextField4.setEditable(true);

jTextField4.setBackground(Color.WHITE);

jTextField4.setFocusable(true);

jButton1.setText("Compute Number of Payments");

jTextField1.requestFocus();

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

*// will compute payment*

computePayment = true;

jButton4.setVisible(false);

jButton3.setVisible(true);

jTextField3.setEditable(true);

jTextField3.setBackground(Color.WHITE);

jTextField3.setFocusable(true);

jTextField4.setText("");

jTextField4.setEditable(false);

jTextField4.setBackground(lightYellow);

jTextField4.setFocusable(false);

jButton1.setText("Compute Monthly Payment");

jTextField1.requestFocus();

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

System.exit(0);

}

*// Variables declaration*

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

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.JScrollPane jScrollPane2;

private javax.swing.JTextArea jTextArea2;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

private javax.swing.JTextField jTextField3;

private javax.swing.JTextField jTextField4;

*// End of variables declaration*

public static void main(String args[]) {

*// create frame*

new LoanAssistant();

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new LoanAssistant().setVisible(true);

}

});

}

}

OUTPUT:













