Assignment 4

Title:- Design calculator application using SWING in java with proper event handling

Code:

/\*

\* 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 javaapplication5;

import javax.swing.\*;

import java.util.\*;

/\*\*

\*

\* @author Lenovo

\*/

public class NewJFrame extends javax.swing.JFrame {

/\*\*

\* Creates new form NewJFrame

\*/

double num, ans;

int calculation;

public String namepattern = "^[a-zA-Z]+$";

public String mobilepattern = "^[0-9]\*$";

public String dobpattern = "dd-MM-yyyy";

public String mailpattern = "^[a-zA-Z0-9\_! #$%&'\*+/=?`{|}~^. -]+@[a-zA-Z0-9. -]+$";

public NewJFrame() {

initComponents();

jRadioButton1.setEnabled(false);

}

public void arithmetic\_operation()

{

switch(calculation)

{

case 1:

ans = num + Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

case 2:

ans = num - Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

case 3:

ans = num \* Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

case 4:

ans = num / Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

}

}

public void enable()

{

jTextField1.setEnabled(true);

jRadioButton1.setEnabled(false);

jRadioButton2.setEnabled(true);

jButton1.setEnabled(true);

jButton2.setEnabled(true);

jButton3.setEnabled(true);

jButton4.setEnabled(true);

jButton5.setEnabled(true);

jButton6.setEnabled(true);

jButton7.setEnabled(true);

jButton8.setEnabled(true);

jButton9.setEnabled(true);

jButton10.setEnabled(true);

jButton11.setEnabled(true);

jButton12.setEnabled(true);

jButton14.setEnabled(true);

jButton15.setEnabled(true);

jButton16.setEnabled(true);

jButton17.setEnabled(true);

jButton19.setEnabled(true);

jButton20.setEnabled(true);

}

public void disable()

{

jTextField1.setEnabled(false);

jRadioButton1.setEnabled(true);

jRadioButton2.setEnabled(false);

jButton1.setEnabled(false);

jButton2.setEnabled(false);

jButton3.setEnabled(false);

jButton4.setEnabled(false);

jButton5.setEnabled(false);

jButton6.setEnabled(false);

jButton7.setEnabled(false);

jButton8.setEnabled(false);

jButton9.setEnabled(false);

jButton10.setEnabled(false);

jButton11.setEnabled(false);

jButton12.setEnabled(false);

jButton14.setEnabled(false);

jButton15.setEnabled(false);

jButton16.setEnabled(false);

jButton17.setEnabled(false);

jButton19.setEnabled(false);

jButton20.setEnabled(false);

}

/\*\*

\* 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() {

buttonGroup1 = new javax.swing.ButtonGroup();

jTextField1 = new javax.swing.JTextField();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

jButton7 = new javax.swing.JButton();

jButton8 = new javax.swing.JButton();

jButton9 = new javax.swing.JButton();

jButton10 = new javax.swing.JButton();

jButton11 = new javax.swing.JButton();

jButton12 = new javax.swing.JButton();

jButton14 = new javax.swing.JButton();

jButton15 = new javax.swing.JButton();

jButton16 = new javax.swing.JButton();

jButton17 = new javax.swing.JButton();

jButton19 = new javax.swing.JButton();

jButton20 = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

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

setTitle("Calculator");

setLocation(new java.awt.Point(600, 350));

setResizable(false);

setType(java.awt.Window.Type.UTILITY);

jTextField1.setFont(new java.awt.Font("Tahoma", 1, 23)); // NOI18N

jTextField1.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

buttonGroup1.add(jRadioButton1);

jRadioButton1.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N

jRadioButton1.setText("ON");

jRadioButton1.addActionListener(new java.awt.event.ActionListener() {

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

jRadioButton1ActionPerformed(evt);

}

});

jRadioButton2.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N

jRadioButton2.setText("OFF");

jRadioButton2.addActionListener(new java.awt.event.ActionListener() {

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

jRadioButton2ActionPerformed(evt);

}

});

jButton1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N

jButton1.setText("<-");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton2.setText("C");

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton3.setText("+");

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

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

jButton3ActionPerformed(evt);

}

});

jButton4.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton4.setText("7");

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

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

jButton4ActionPerformed(evt);

}

});

jButton5.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton5.setText("9");

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

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

jButton5ActionPerformed(evt);

}

});

jButton6.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton6.setText("8");

jButton6.addActionListener(new java.awt.event.ActionListener() {

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

jButton6ActionPerformed(evt);

}

});

jButton7.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton7.setText("5");

jButton7.addActionListener(new java.awt.event.ActionListener() {

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

jButton7ActionPerformed(evt);

}

});

jButton8.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton8.setText("4");

jButton8.addActionListener(new java.awt.event.ActionListener() {

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

jButton8ActionPerformed(evt);

}

});

jButton9.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton9.setText("6");

jButton9.addActionListener(new java.awt.event.ActionListener() {

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

jButton9ActionPerformed(evt);

}

});

jButton10.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton10.setText("1");

jButton10.addActionListener(new java.awt.event.ActionListener() {

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

jButton10ActionPerformed(evt);

}

});

jButton11.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton11.setText("2");

jButton11.addActionListener(new java.awt.event.ActionListener() {

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

jButton11ActionPerformed(evt);

}

});

jButton12.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton12.setText("3");

jButton12.addActionListener(new java.awt.event.ActionListener() {

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

jButton12ActionPerformed(evt);

}

});

jButton14.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton14.setText("-");

jButton14.addActionListener(new java.awt.event.ActionListener() {

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

jButton14ActionPerformed(evt);

}

});

jButton15.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton15.setText("\*");

jButton15.addActionListener(new java.awt.event.ActionListener() {

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

jButton15ActionPerformed(evt);

}

});

jButton16.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton16.setText("/");

jButton16.addActionListener(new java.awt.event.ActionListener() {

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

jButton16ActionPerformed(evt);

}

});

jButton17.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton17.setText("0");

jButton17.addActionListener(new java.awt.event.ActionListener() {

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

jButton17ActionPerformed(evt);

}

});

jButton19.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton19.setText(".");

jButton19.addActionListener(new java.awt.event.ActionListener() {

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

jButton19ActionPerformed(evt);

}

});

jButton20.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton20.setText("=");

jButton20.addActionListener(new java.awt.event.ActionListener() {

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

jButton20ActionPerformed(evt);

}

});

jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.RIGHT);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

.addContainerGap()

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

.addComponent(jTextField1)

.addGroup(layout.createSequentialGroup()

.addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 58, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(8, 8, 8)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 0, Short.MAX\_VALUE)

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

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(16, 16, 16))

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton7, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addGroup(layout.createSequentialGroup()

.addGap(6, 6, 6)

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

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

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

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(12, 12, 12))))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jButton10, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton17, javax.swing.GroupLayout.DEFAULT\_SIZE, 60, Short.MAX\_VALUE))

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

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

.addComponent(jButton19, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton11, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(12, 12, 12))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jButton20, javax.swing.GroupLayout.PREFERRED\_SIZE, 132, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))))

.addGroup(layout.createSequentialGroup()

.addComponent(jRadioButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 58, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, Short.MAX\_VALUE))))

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

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 45, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

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

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

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

.addComponent(jRadioButton1)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(0, 0, Short.MAX\_VALUE))

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

.addComponent(jRadioButton2)

.addGap(31, 31, 31)

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

.addComponent(jButton4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton14, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(jButton7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton15, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

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

.addComponent(jButton9, javax.swing.GroupLayout.DEFAULT\_SIZE, 44, Short.MAX\_VALUE)

.addGap(3, 3, 3)))

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

.addComponent(jButton10, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton11, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton12, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton16, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

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

.addComponent(jButton17, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton19, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton20, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton10ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "1");

}

private void jButton11ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "2");

}

private void jButton12ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "3");

}

private void jButton8ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "4");

}

private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "5");

}

private void jButton9ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "6");

}

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

jTextField1.setText(jTextField1.getText()+ "7");

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "8");

}

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

jTextField1.setText(jTextField1.getText()+ "9");

}

private void jButton17ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ "0");

}

private void jButton19ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText()+ ".");

}

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

jTextField1.setText("");

}

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {

enable();

}

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

disable();

}

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

int length = jTextField1.getText().length();

int number = jTextField1.getText().length() - 1;

String store;

if(length>0)

{

StringBuilder back = new StringBuilder(jTextField1.getText());

back.deleteCharAt(number);

store = back.toString();

jTextField1.setText(store);

}

}

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

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

calculation = 1;

jTextField1.setText("");

jLabel1.setText(num + "+");

}

private void jButton20ActionPerformed(java.awt.event.ActionEvent evt) {

arithmetic\_operation();

jLabel1.setText("");

}

private void jButton14ActionPerformed(java.awt.event.ActionEvent evt) {

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

calculation = 2;

jTextField1.setText("");

jLabel1.setText(num + "-");

}

private void jButton15ActionPerformed(java.awt.event.ActionEvent evt) {

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

calculation = 3;

jTextField1.setText("");

jLabel1.setText(num + "\*");

}

private void jButton16ActionPerformed(java.awt.event.ActionEvent evt) {

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

calculation = 4;

jTextField1.setText("");

jLabel1.setText(num + "/");

}

/\*\*

\* @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.logging.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.ButtonGroup buttonGroup1;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton17;

private javax.swing.JButton jButton19;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton20;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JLabel jLabel1;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration

}

Output:

