At first we create Backspace button.

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

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

Declare two integer varibles that is length and number. length() is a method to returns the length of the String.

String store;

if (length > 0){

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

back.deleteCharAt(number);

store = back.toString();

jTextField1.setText(store);

}

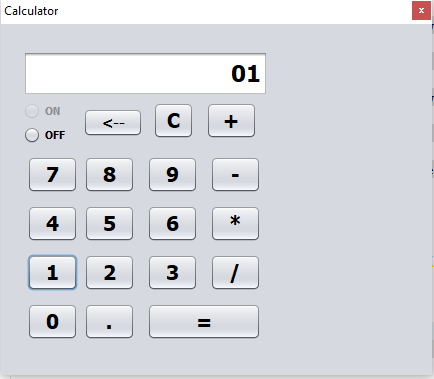
Declare ‘store’ variable which datatype is String. StringBuilder is create empty StringBuilder which is used to store Strings. Back is object of StringBuilder.

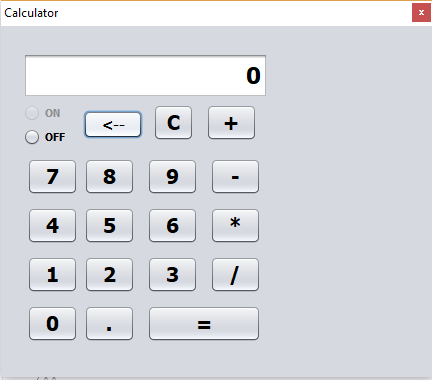
jTextField1.getText() is the value of TextField it’s stored in StringBuilder ‘back’.

back.deleteCharAt(number) is a method to delete a single character from specific position. “(number)” the reason to delete length one by one.

store = back.toString() is used to convert StringBuilder ‘back’ into String because TextField only take String values.

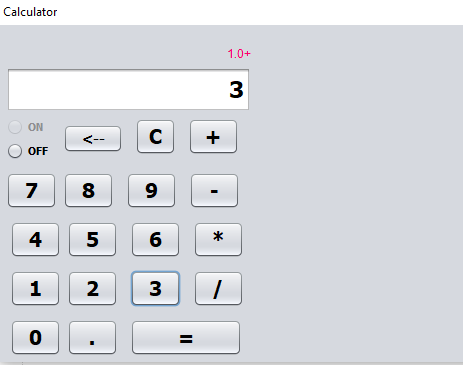
jTextField1.setText(store) is used to ‘store’ variable set in setText() method.

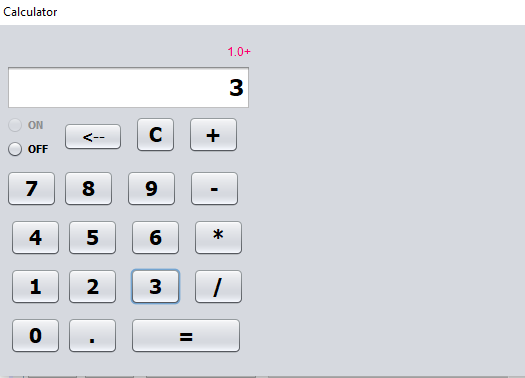


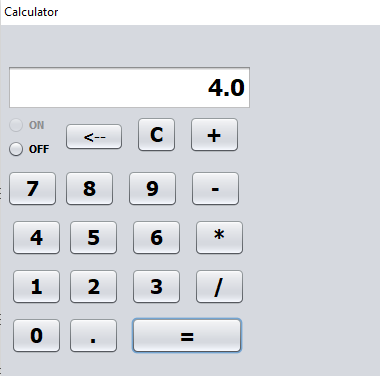


Now we start performing Mathematical Operatıons and we use Switch Case.

So after the implementation we select “Label” from “Swing Controls”. After that go to “foreground” from properties and select 2 color and then select the “text button” as empty. Arrange the witdh as 50. From “horizontal allignment” chose “right” and from the source code we remove the implementation on “+” sign because we want to display “+” sign on Label instead of TextField.







Now we are doing the same prosedüre for subtractıon,multiplication and division.

Finally we create the .jar file. Right click on “calculator\_ap”, go to “properties” and click the “packing” check all items should be signed. After that again right click the “calculator\_ap” select “Clean and Build”. Now go to Project Location where .jar file is store in “dist” folder. Your project will be placed on your computer.

Final version of the code:

package calculator\_ap;

/\*\*

\*

\* @author lenovo

\*/

public class calculator extends javax.swing.JFrame {

/\*\*

\* Creates new form calculator

\*/

double num,ans;

int calculation;

public calculator() {

initComponents();

jRadioButton1.setEnabled(false); // ON button disable

}

public void arithmetic\_operation(){

switch(calculation){

case 1: // addition

ans = num + Double.parseDouble(jTextField1.getText()); // convert String into double

jTextField1.setText(Double.toString(ans)); // convert double into String

break;

case 2: // subtraction

ans = num - Double.parseDouble(jTextField1.getText()); // convert String into double

jTextField1.setText(Double.toString(ans)); // convert double into String

break;

case 3: // multiplication

ans = num \* Double.parseDouble(jTextField1.getText()); // convert String into double

jTextField1.setText(Double.toString(ans)); // convert double into String

break;

case 4: // divition

ans = num / Double.parseDouble(jTextField1.getText()); // convert String into double

jTextField1.setText(Double.toString(ans)); // convert double into String

break;

}

}

public void enable(){

jTextField1.setEnabled(true);

jRadioButton1.setEnabled(false); //ON button disable

jRadioButton2.setEnabled(true); // OFF button enable

jButton1.setEnabled(true);

jButton2.setEnabled(true);

jButton3.setEnabled(true);

jButton7.setEnabled(true);

jButton8.setEnabled(true);

jButton9.setEnabled(true);

jButton10.setEnabled(true);

jButton11.setEnabled(true);

jButton12.setEnabled(true);

jButton13.setEnabled(true);

jButton14.setEnabled(true);

jButton15.setEnabled(true);

jButton16.setEnabled(true);

jButton17.setEnabled(true);

jButton18.setEnabled(true);

jButton19.setEnabled(true);

jButton20.setEnabled(true);

jButton21.setEnabled(true);

jButton22.setEnabled(true);

jButton23.setEnabled(true);

}

public void disable(){

jTextField1.setEnabled(false);

jRadioButton1.setEnabled(true); //ON button enable

jRadioButton2.setEnabled(false); //OFF button disable

jButton1.setEnabled(false);

jButton2.setEnabled(false);

jButton3.setEnabled(false);

jButton7.setEnabled(false);

jButton8.setEnabled(false);

jButton9.setEnabled(false);

jButton10.setEnabled(false);

jButton11.setEnabled(false);

jButton12.setEnabled(false);

jButton13.setEnabled(false);

jButton14.setEnabled(false);

jButton15.setEnabled(false);

jButton16.setEnabled(false);

jButton17.setEnabled(false);

jButton18.setEnabled(false);

jButton19.setEnabled(false);

jButton20.setEnabled(false);

jButton21.setEnabled(false);

jButton22.setEnabled(false);

jButton23.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();

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();

jButton13 = new javax.swing.JButton();

jButton14 = new javax.swing.JButton();

jButton15 = new javax.swing.JButton();

jButton16 = new javax.swing.JButton();

jButton17 = new javax.swing.JButton();

jButton18 = new javax.swing.JButton();

jButton19 = new javax.swing.JButton();

jButton20 = new javax.swing.JButton();

jButton21 = new javax.swing.JButton();

jButton22 = new javax.swing.JButton();

jButton23 = new javax.swing.JButton();

jLabel3 = new javax.swing.JLabel();

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

setTitle("Calculator");

setLocation(new java.awt.Point(500, 250));

setResizable(false);

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

jTextField1.setEditable(false);

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);

}

});

buttonGroup1.add(jRadioButton2);

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");

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

jButton3.setText("C");

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

jButton7.setText("C");

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("+");

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("7");

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("8");

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("9");

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("-");

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

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

jButton12ActionPerformed(evt);

}

});

jButton13.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton13.setText("4");

jButton13.addActionListener(new java.awt.event.ActionListener() {

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

jButton13ActionPerformed(evt);

}

});

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

jButton14.setText("5");

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("6");

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("1");

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

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

jButton17ActionPerformed(evt);

}

});

jButton18.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton18.setText("2");

jButton18.addActionListener(new java.awt.event.ActionListener() {

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

jButton18ActionPerformed(evt);

}

});

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

jButton19.setText("3");

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);

}

});

jButton21.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton21.setText("0");

jButton21.addActionListener(new java.awt.event.ActionListener() {

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

jButton21ActionPerformed(evt);

}

});

jButton22.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton22.setText(".");

jButton22.addActionListener(new java.awt.event.ActionListener() {

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

jButton22ActionPerformed(evt);

}

});

jButton23.setFont(new java.awt.Font("Tahoma", 1, 20)); // NOI18N

jButton23.setText("=");

jButton23.addActionListener(new java.awt.event.ActionListener() {

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

jButton23ActionPerformed(evt);

}

});

jLabel3.setForeground(new java.awt.Color(255, 0, 102));

jLabel3.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)

.addGroup(layout.createSequentialGroup()

.addGap(4, 4, 4)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jButton13, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton14, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton15, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton16, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jButton17, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton18, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton19, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton20, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jButton21, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton22, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton23, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jRadioButton2)

.addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 45, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton7)

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

.addComponent(jButton8, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jButton9, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton10, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton11, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton12, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 245, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(263, 263, 263)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 55, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, 0)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 55, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(51, 51, 51)

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 0, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 0, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())))

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

.addGap(19, 19, 19)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 15, 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.LEADING)

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

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

.addComponent(jButton7)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jRadioButton1)

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

.addComponent(jRadioButton2)))

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

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

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

.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))

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

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

.addComponent(jButton13, 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)

.addComponent(jButton15, 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.UNRELATED)

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

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

.addComponent(jButton18, 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))

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

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

.addComponent(jButton21, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton22, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton23, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addGap(22, 22, 22))

);

pack();

}// </editor-fold>

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

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

}

private void jButton18ActionPerformed(java.awt.event.ActionEvent evt) {

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

}

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

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

}

private void jButton13ActionPerformed(java.awt.event.ActionEvent evt) {

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

}

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

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

}

private void jButton21ActionPerformed(java.awt.event.ActionEvent evt) {

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

}

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

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

}

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

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

}

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

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

}

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

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

}

private void jButton22ActionPerformed(java.awt.event.ActionEvent evt) {

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

}

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

num = Double.parseDouble(jTextField1.getText()); // convert String into double

// call switch statement

calculation = 1;

jTextField1.setText(" "); // clear textField

// display current numbers '+' sign on Label

jLabel3.setText(num + "+");

}

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

num = Double.parseDouble(jTextField1.getText()); // convert String into double

// call switch statement

calculation = 2;

jTextField1.setText(" "); // clear textField

// display current numbers '+' sign on Label

jLabel3.setText(num + "-");

}

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

num = Double.parseDouble(jTextField1.getText()); // convert String into double

// call switch statement

calculation = 3;

jTextField1.setText(" "); // clear textField

// display current numbers '+' sign on Label

jLabel3.setText(num + "\*");

}

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

num = Double.parseDouble(jTextField1.getText()); // convert String into double

// call switch statement

calculation = 4;

jTextField1.setText(" "); // clear textField

// display current numbers '+' sign on Label

jLabel3.setText(num + "/");

}

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

jTextField1.setText("");

}

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

disable(); // call disable method

}

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

enable(); // call enable method

}

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 jButton23ActionPerformed(java.awt.event.ActionEvent evt) {

// call arithmatic\_aperation () method

arithmetic\_operation();

jLabel3.setText(" ");

}

/\*\*

\* @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(calculator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(calculator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(calculator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(calculator.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 calculator().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 jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton17;

private javax.swing.JButton jButton18;

private javax.swing.JButton jButton19;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton20;

private javax.swing.JButton jButton21;

private javax.swing.JButton jButton22;

private javax.swing.JButton jButton23;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JLabel jLabel3;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JTextField jTextField1;

// End of variables declaration

}