1. **Calculator Interface**

Graphical user interface, application

Description automatically generated

/\*

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\*/

package my.Calculator\_Interface;

/\*\*

\*

\* @author chinn

\*/

public class Calculator\_Interface extends javax.swing.JFrame {

/\*\*

\* Creates new form Calculator\_Interface

\*/

public Calculator\_Interface() {

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() {

jDisplay = new javax.swing.JTextField();

jnBtn7 = new javax.swing.JButton();

jBtn8 = new javax.swing.JButton();

jBtn9 = new javax.swing.JButton();

jBtnDivide = new javax.swing.JButton();

jBtn4 = new javax.swing.JButton();

jBtn2 = new javax.swing.JButton();

jBtn5 = new javax.swing.JButton();

jBtn1 = new javax.swing.JButton();

jBtn6 = new javax.swing.JButton();

jBtnMultiply = new javax.swing.JButton();

jBtn3 = new javax.swing.JButton();

jBtnSubtract = new javax.swing.JButton();

jBtn0 = new javax.swing.JButton();

jBtnDecimal = new javax.swing.JButton();

jBtnPlus = new javax.swing.JButton();

jBtnEqual = new javax.swing.JButton();

jBtnClear = new javax.swing.JButton();

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

jDisplay.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jDisplay.setBorder(null);

jnBtn7.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jnBtn7.setText("7");

jnBtn7.setBorder(null);

jnBtn7.addActionListener(new java.awt.event.ActionListener() {

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

jnBtn7ActionPerformed(evt);

}

});

jBtn8.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn8.setText("8");

jBtn8.setBorder(null);

jBtn9.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn9.setText("9");

jBtn9.setBorder(null);

jBtnDivide.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtnDivide.setText("/");

jBtnDivide.setBorder(null);

jBtn4.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn4.setText("4");

jBtn4.setBorder(null);

jBtn4.addActionListener(new java.awt.event.ActionListener() {

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

jBtn4ActionPerformed(evt);

}

});

jBtn2.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn2.setText("2");

jBtn2.setBorder(null);

jBtn2.addActionListener(new java.awt.event.ActionListener() {

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

jBtn2ActionPerformed(evt);

}

});

jBtn5.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn5.setText("5");

jBtn5.setBorder(null);

jBtn1.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn1.setText("1");

jBtn1.setBorder(null);

jBtn1.addActionListener(new java.awt.event.ActionListener() {

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

jBtn1ActionPerformed(evt);

}

});

jBtn6.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn6.setText("6");

jBtn6.setBorder(null);

jBtnMultiply.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtnMultiply.setText("\*");

jBtnMultiply.setBorder(null);

jBtn3.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn3.setText("3");

jBtn3.setBorder(null);

jBtn3.addActionListener(new java.awt.event.ActionListener() {

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

jBtn3ActionPerformed(evt);

}

});

jBtnSubtract.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtnSubtract.setText("-");

jBtnSubtract.setBorder(null);

jBtn0.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtn0.setText("0");

jBtn0.setBorder(null);

jBtnDecimal.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtnDecimal.setText(".");

jBtnDecimal.setBorder(null);

jBtnPlus.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtnPlus.setText("+");

jBtnPlus.setBorder(null);

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

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

jBtnPlusActionPerformed(evt);

}

});

jBtnEqual.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtnEqual.setText("=");

jBtnEqual.setBorder(null);

jBtnClear.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N

jBtnClear.setText("C");

jBtnClear.setBorder(null);

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()

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

.addComponent(jDisplay, javax.swing.GroupLayout.PREFERRED\_SIZE, 380, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addComponent(jBtn4, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jBtn5, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn6, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jBtn1, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jBtn2, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn3, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jBtnClear, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addGroup(layout.createSequentialGroup()

.addComponent(jBtn0, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jBtnDecimal, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(18, 18, 18)

.addComponent(jBtnPlus, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

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

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

.addGroup(layout.createSequentialGroup()

.addComponent(jnBtn7, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jBtn8, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(jBtn9, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jBtnDivide, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

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

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

.addComponent(jBtnSubtract, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnMultiply, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnEqual, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(20, 20, 20))))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jnBtn7, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtn8, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtn9, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnDivide, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

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

.addComponent(jBtn4, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtn5, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtn6, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnMultiply, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

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

.addComponent(jBtn1, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtn2, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtn3, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnSubtract, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

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

.addComponent(jBtn0, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnDecimal, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnPlus, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jBtnEqual, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(jBtnClear, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

pack();

}// </editor-fold>

private void jBtn4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jBtn1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jBtn2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jBtn3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

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

// TODO add your handling code here:

}

private void jnBtn7ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Calculator\_Interface.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\_Interface().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jBtn0;

private javax.swing.JButton jBtn1;

private javax.swing.JButton jBtn2;

private javax.swing.JButton jBtn3;

private javax.swing.JButton jBtn4;

private javax.swing.JButton jBtn5;

private javax.swing.JButton jBtn6;

private javax.swing.JButton jBtn8;

private javax.swing.JButton jBtn9;

private javax.swing.JButton jBtnClear;

private javax.swing.JButton jBtnDecimal;

private javax.swing.JButton jBtnDivide;

private javax.swing.JButton jBtnEqual;

private javax.swing.JButton jBtnMultiply;

private javax.swing.JButton jBtnPlus;

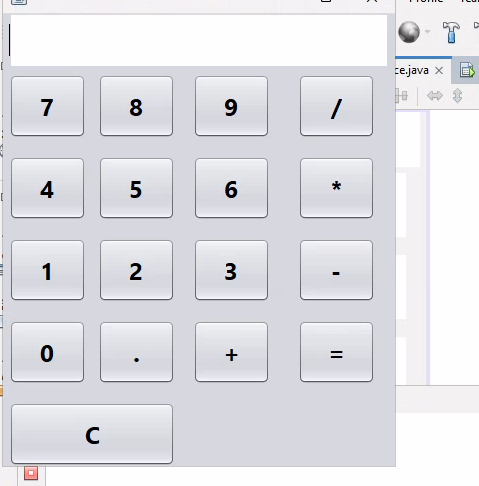
private javax.swing.JButton jBtnSubtract;

private javax.swing.JTextField jDisplay;

private javax.swing.JButton jnBtn7;

// End of variables declaration

}



1. **Temperature from Celsius to Fahrenheit**

/\*

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\*/

/\*\*

\*

\* @author chinn

\*/

public class TempConversion extends javax.swing.JFrame {

/\*\*

\* Creates new form TempConversion

\*/

public TempConversion() {

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() {

Title = new javax.swing.JTextField();

CelsiusLabel = new javax.swing.JLabel();

Celsius = new javax.swing.JTextField();

CalculateButton = new javax.swing.JButton();

FahrenheitLabel = new javax.swing.JLabel();

Fahrenheit = new javax.swing.JTextField();

ClearButton = new javax.swing.JButton();

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

Title.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N

Title.setText("Temperature Conversion");

Title.setBorder(null);

CelsiusLabel.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

CelsiusLabel.setText("Temperature in Celsius");

Celsius.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

Celsius.setBorder(null);

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

CalculateButton.setText("Calculate");

CalculateButton.setBorder(null);

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

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

CalculateButtonActionPerformed(evt);

}

});

FahrenheitLabel.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

FahrenheitLabel.setText("Temperature in Fahrenheit");

Fahrenheit.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

Fahrenheit.setBorder(null);

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

ClearButton.setText("Clear");

ClearButton.setBorder(null);

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

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

ClearButtonActionPerformed(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(66, 66, 66)

.addComponent(Title, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(17, 17, 17)

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

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

.addComponent(FahrenheitLabel)

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

.addComponent(Fahrenheit, javax.swing.GroupLayout.PREFERRED\_SIZE, 122, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(CalculateButton, javax.swing.GroupLayout.Alignment.LEADING)

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

.addComponent(CelsiusLabel)

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

.addComponent(Celsius, javax.swing.GroupLayout.PREFERRED\_SIZE, 138, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(ClearButton, javax.swing.GroupLayout.Alignment.LEADING))))

.addContainerGap(139, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(Title, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

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

.addComponent(CelsiusLabel)

.addComponent(Celsius, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addComponent(CalculateButton)

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

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

.addComponent(FahrenheitLabel)

.addComponent(Fahrenheit, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(ClearButton)

.addGap(0, 36, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

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

Celsius.setText("");

Fahrenheit.setText("");

}

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

double Fah = 0.0;

double Cel = 0.0;

Cel = Double.parseDouble(Celsius.getText());

Fah = (Cel \* 9/5)+ 32;

Fahrenheit.setText(String.valueOf(Fah));

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(TempConversion.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 TempConversion().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton CalculateButton;

private javax.swing.JTextField Celsius;

private javax.swing.JLabel CelsiusLabel;

private javax.swing.JButton ClearButton;

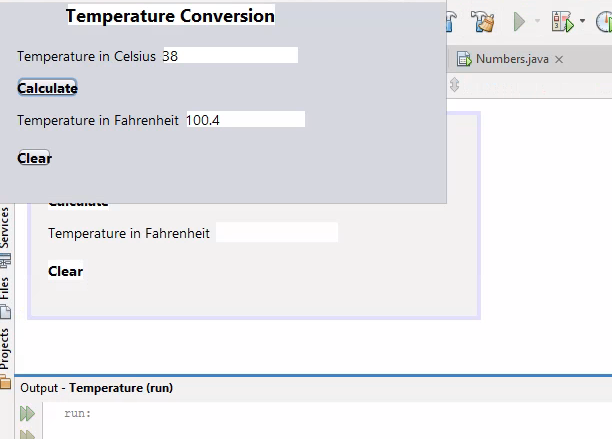
private javax.swing.JTextField Fahrenheit;

private javax.swing.JLabel FahrenheitLabel;

private javax.swing.JTextField Title;

// End of variables declaration

}



1. **Number Operations**

/\*

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\*/

/\*\*

\*

\* @author chinn

\*/

public class Numbers extends javax.swing.JFrame {

/\*\*

\* Creates new form Numbers

\*/

public Numbers() {

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() {

jTextField1 = new javax.swing.JTextField();

Operations = new javax.swing.ButtonGroup();

jTextTitle = new javax.swing.JTextField();

FirstLabel = new javax.swing.JLabel();

SecondLabel = new javax.swing.JLabel();

AnswerLabel = new javax.swing.JLabel();

FirstNum = new javax.swing.JTextField();

SecondNum = new javax.swing.JTextField();

Answer = new javax.swing.JTextField();

CalculateBtn = new javax.swing.JButton();

ClearBtn = new javax.swing.JButton();

ExitBtn = new javax.swing.JButton();

RadioAdd = new javax.swing.JRadioButton();

RadioSubtract = new javax.swing.JRadioButton();

RadioMultiply = new javax.swing.JRadioButton();

RadioDivide = new javax.swing.JRadioButton();

jTextField1.setText("jTextField1");

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

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

jTextField1ActionPerformed(evt);

}

});

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

jTextTitle.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

jTextTitle.setText("Mathematical Operations");

jTextTitle.setBorder(null);

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

FirstLabel.setText("First Number");

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

SecondLabel.setText("Second Number");

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

AnswerLabel.setText("Answer");

FirstNum.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

FirstNum.setBorder(null);

SecondNum.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

SecondNum.setBorder(null);

Answer.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

Answer.setBorder(null);

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

CalculateBtn.setText("Calculate");

CalculateBtn.setBorder(null);

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

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

CalculateBtnActionPerformed(evt);

}

});

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

ClearBtn.setText("Clear");

ClearBtn.setBorder(null);

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

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

ClearBtnActionPerformed(evt);

}

});

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

ExitBtn.setText("Exit");

ExitBtn.setBorder(null);

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

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

ExitBtnActionPerformed(evt);

}

});

Operations.add(RadioAdd);

RadioAdd.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

RadioAdd.setSelected(true);

RadioAdd.setText("Addition");

RadioAdd.setBorder(null);

Operations.add(RadioSubtract);

RadioSubtract.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

RadioSubtract.setText("Subtraction");

RadioSubtract.setBorder(null);

Operations.add(RadioMultiply);

RadioMultiply.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

RadioMultiply.setText("Multiplication");

RadioMultiply.setBorder(null);

Operations.add(RadioDivide);

RadioDivide.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

RadioDivide.setText("Division");

RadioDivide.setBorder(null);

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(86, 86, 86)

.addComponent(jTextTitle, javax.swing.GroupLayout.PREFERRED\_SIZE, 219, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addContainerGap()

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

.addComponent(FirstLabel, javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(SecondLabel, javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(AnswerLabel, javax.swing.GroupLayout.Alignment.LEADING))

.addGap(4, 4, 4)

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

.addGroup(layout.createSequentialGroup()

.addComponent(FirstNum, javax.swing.GroupLayout.PREFERRED\_SIZE, 106, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(37, 37, 37)

.addComponent(RadioAdd))

.addGroup(layout.createSequentialGroup()

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

.addComponent(ClearBtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(SecondNum, javax.swing.GroupLayout.PREFERRED\_SIZE, 106, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Answer, javax.swing.GroupLayout.PREFERRED\_SIZE, 106, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(37, 37, 37)

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

.addComponent(RadioSubtract)

.addComponent(RadioMultiply)

.addComponent(RadioDivide)

.addComponent(ExitBtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)))))

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(CalculateBtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap(14, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGap(21, 21, 21)

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

.addComponent(FirstNum, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(FirstLabel)

.addComponent(RadioAdd))

.addGap(18, 18, 18)

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

.addComponent(RadioSubtract)

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

.addComponent(SecondLabel)

.addComponent(SecondNum)))

.addGap(21, 21, 21)

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

.addComponent(RadioMultiply)

.addComponent(AnswerLabel)

.addComponent(Answer, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(21, 21, 21)

.addComponent(RadioDivide)

.addGap(19, 19, 19)

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

.addComponent(CalculateBtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 31, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(ClearBtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 31, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(ExitBtn, javax.swing.GroupLayout.PREFERRED\_SIZE, 31, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(37, 37, 37))

);

pack();

}// </editor-fold>

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

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

System.exit(0);

}

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

FirstNum.setText("");

SecondNum.setText("");

Answer.setText("");

}

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

double num1 = 0.0;

double num2 = 0.0;

double answer = 0.0;

num1 = Double.parseDouble(FirstNum.getText());

num2 = Double.parseDouble(SecondNum.getText());

if (RadioAdd.isSelected())

answer = num1 + num2;

else if (RadioSubtract.isSelected())

answer = num1 - num2;

else if (RadioMultiply.isSelected())

answer = num1 \* num2;

else if (RadioDivide.isSelected())

answer = num1 / num2;

Answer.setText(String.valueOf(answer));

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Numbers.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 Numbers().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Answer;

private javax.swing.JLabel AnswerLabel;

private javax.swing.JButton CalculateBtn;

private javax.swing.JButton ClearBtn;

private javax.swing.JButton ExitBtn;

private javax.swing.JLabel FirstLabel;

private javax.swing.JTextField FirstNum;

private javax.swing.ButtonGroup Operations;

private javax.swing.JRadioButton RadioAdd;

private javax.swing.JRadioButton RadioDivide;

private javax.swing.JRadioButton RadioMultiply;

private javax.swing.JRadioButton RadioSubtract;

private javax.swing.JLabel SecondLabel;

private javax.swing.JTextField SecondNum;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextTitle;

// End of variables declaration

}

