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My thanks and appreciations also go to my colleague in developing the project and my parents for their moral support and guidance.

**DECLARATION**

I, **Anil Relhan**, hereby declare that the project work on **Open Source Software** entitled **“Calculator + Unit Converter”** submitted to the **Guru Jambheshwar University of Science & Technology, Hisar** is a record of an original work done by me. The project work is submitted in fulfillment of the requirements for the award of degree of **Bachelor of Technology** in **Computer Science & Engineering.**

ANIL RELHAN

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1. **INTRODUCTION**

**“Calculator + Unit Converter”** is an GUI (Graphical User Interface).

* Functionality :

1. **Calculator** : It is used to calculate the simple mathematical calculation (+, -, \*, /, %) and scientific calculation (sin, cos, tan, log, sqrt, cbrt, Xn , !).
2. **Temperature Converter** : It is used to convert unit of Temperature from one unit(K, C, F), to another unit(K, C, F).
3. **Mass Converter** : It is used to convert unit of Weight from one unit(Kg, g, q, t, lb), to another unit(Kg, g, q, t, lb).
4. **Length Converter** : It is used to convert unit of Length from one unit(mi, Km, m, yd, ft, in), to another unit(mi, Km, m, yd, ft, in).
5. **Time Converter** : It is used to convert unit of Time from one unit(yr, day, h, min, s), to another unit(yr, day, h, min, s).
6. **OVERALL DESCRIPTION**

* **Software requirements :**

1. Operating System : Windows 10
2. NetBeans IDE-8.2
3. Swing API
4. Lang library

* **Design and development methodology :**

I used Java Netbeans for the development of **Calculator + Unit Converter.** It is GUI(Graphical User Interface).

I used Swing API(Application Programming Interface).

The method is as follow :-

**Step 1**: - Create a blank Java project and name it JavaCalculator. Uncheck the Main class option from the project tab.  
**Step 2**: - To add a Tabbed Pane, right click the project name in the Project window.

**Step 3**: - Add the Panel in Tabbed Pane and name them like Calculator, Temperature, Length, Mass, Time.

**Step 4**: - To the right of the Jframe, there is a Palette with a set of controls on it. Click the Text Field and apply it on the blank Field form. Now click **Properties**, then change the **text** field to blank. Click on the **Code** and change the **Variable Name** to txtDisplay.

**Step 5**: - Select the **Button** and drag it to the Panel form. Change the **text** and the **Variable** Name as required.

**Step 6**: - Double click on any of the button. This will take the user to source section where the major coding of the program is done. Add the code of button here.

**Step 7: -** Select the **Combo Box** and drag it to the JPanel form of Temperature. Change the **text** and the **Variable** Name as required.

**Step 8**: - Select the **Button** and drag it to the Panel form of Temperature. Change the **text** and the **Variable** Name as required.

**Step 9**: - Double click on any of the button. This will take the user to source section where the major coding of the program is done. Add the code of button here.

1. **SOURCE CODE**

public class JavaCalculator extends javax.swing.JFrame {

double firstnum, secondnum, result, r = 1;

String operations;

double temp, temperature;

String i1="Celsius", i2="Fahrenheit";

double ti, time;

String i3="Hour", i4="Second";

double ma, mass;

String i5="Kilogramme", i6="Gramme";

double len, length;

String i7="Kilometre", i8="Metre";

public JavaCalculator() {

initComponents();

}

private void initComponents() {

jSpinner1 = new javax.swing.JSpinner();

jScrollPane1 = new javax.swing.JScrollPane();

jList1 = new javax.swing.JList<>();

jRadioButton1 = new javax.swing.JRadioButton();

jScrollBar1 = new javax.swing.JScrollBar();

jComboBox1 = new javax.swing.JComboBox<>();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

jButton9 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton7 = new javax.swing.JButton();

jButton8 = new javax.swing.JButton();

jComboBox3 = new javax.swing.JComboBox<>();

jButton10 = new javax.swing.JButton();

jButton11 = new javax.swing.JButton();

jButton12 = new javax.swing.JButton();

jButton13 = new javax.swing.JButton();

jTextField2 = new javax.swing.JTextField();

jTextField1 = new javax.swing.JTextField();

jComboBox2 = new javax.swing.JComboBox<>();

jComboBox4 = new javax.swing.JComboBox<>();

jButton1 = new javax.swing.JButton();

jTabbedPane1 = new javax.swing.JTabbedPane();

jPanel2 = new javax.swing.JPanel();

jPanel1 = new javax.swing.JPanel();

btnOne = new javax.swing.JButton();

btnEqual = new javax.swing.JButton();

btnFive = new javax.swing.JButton();

btnZero = new javax.swing.JButton();

btnSix = new javax.swing.JButton();

btnClear = new javax.swing.JButton();

btnFour = new javax.swing.JButton();

btnPercent = new javax.swing.JButton();

btnEight = new javax.swing.JButton();

btnPoint = new javax.swing.JButton();

btnNine = new javax.swing.JButton();

btnNSquare = new javax.swing.JButton();

btnSeven = new javax.swing.JButton();

btnSubtract = new javax.swing.JButton();

txtDisplay = new javax.swing.JTextField();

btnPlus = new javax.swing.JButton();

btnTwo = new javax.swing.JButton();

btnDivision = new javax.swing.JButton();

btnThree = new javax.swing.JButton();

btnMultiply = new javax.swing.JButton();

btnBackspace1 = new javax.swing.JButton();

btnFact = new javax.swing.JButton();

btnTan = new javax.swing.JButton();

btnCos = new javax.swing.JButton();

btnSin = new javax.swing.JButton();

btnLog = new javax.swing.JButton();

btnE = new javax.swing.JButton();

btnPi = new javax.swing.JButton();

btnSqrt = new javax.swing.JButton();

btnCbrt = new javax.swing.JButton();

jPanel3 = new javax.swing.JPanel();

btnSix6 = new javax.swing.JButton();

btnBackspace = new javax.swing.JButton();

btnFour4 = new javax.swing.JButton();

btnEight8 = new javax.swing.JButton();

item2 = new javax.swing.JComboBox<>();

btnNine9 = new javax.swing.JButton();

item1 = new javax.swing.JComboBox<>();

btnSeven7 = new javax.swing.JButton();

textField2 = new javax.swing.JTextField();

btnZero0 = new javax.swing.JButton();

btnDot = new javax.swing.JButton();

btnTwo2 = new javax.swing.JButton();

btnAC = new javax.swing.JButton();

btnThree3 = new javax.swing.JButton();

btnOne1 = new javax.swing.JButton();

btnFive5 = new javax.swing.JButton();

btnPlusMinus = new javax.swing.JButton();

btnConvert = new javax.swing.JButton();

textField1 = new javax.swing.JTextField();

jLabel1 = new javax.swing.JLabel();

jPanel6 = new javax.swing.JPanel();

btnDot3 = new javax.swing.JButton();

textField8 = new javax.swing.JTextField();

btnZero0000 = new javax.swing.JButton();

btnOne1111 = new javax.swing.JButton();

btnConvert3 = new javax.swing.JButton();

btnTwo2222 = new javax.swing.JButton();

btnAC3 = new javax.swing.JButton();

btnThree3333 = new javax.swing.JButton();

btnBackspace4 = new javax.swing.JButton();

btnFour4444 = new javax.swing.JButton();

btnFive5555 = new javax.swing.JButton();

btnSix6666 = new javax.swing.JButton();

btnSeven7777 = new javax.swing.JButton();

item7 = new javax.swing.JComboBox<>();

btnEight8888 = new javax.swing.JButton();

item8 = new javax.swing.JComboBox<>();

btnNine9999 = new javax.swing.JButton();

textField7 = new javax.swing.JTextField();

jLabel2 = new javax.swing.JLabel();

jPanel5 = new javax.swing.JPanel();

btnSeven777 = new javax.swing.JButton();

item6 = new javax.swing.JComboBox<>();

btnEight888 = new javax.swing.JButton();

btnNine999 = new javax.swing.JButton();

btnDot2 = new javax.swing.JButton();

btnZero000 = new javax.swing.JButton();

btnAC2 = new javax.swing.JButton();

btnConvert2 = new javax.swing.JButton();

btnBackspace3 = new javax.swing.JButton();

textField5 = new javax.swing.JTextField();

textField6 = new javax.swing.JTextField();

item5 = new javax.swing.JComboBox<>();

btnOne111 = new javax.swing.JButton();

btnTwo222 = new javax.swing.JButton();

btnThree333 = new javax.swing.JButton();

btnFour444 = new javax.swing.JButton();

btnFive555 = new javax.swing.JButton();

btnSix666 = new javax.swing.JButton();

jLabel3 = new javax.swing.JLabel();

jPanel4 = new javax.swing.JPanel();

btnSeven77 = new javax.swing.JButton();

btnThree33 = new javax.swing.JButton();

item4 = new javax.swing.JComboBox<>();

btnSix66 = new javax.swing.JButton();

item3 = new javax.swing.JComboBox<>();

btnNine99 = new javax.swing.JButton();

btnAC1 = new javax.swing.JButton();

btnBackspace2 = new javax.swing.JButton();

btnOne11 = new javax.swing.JButton();

btnZero00 = new javax.swing.JButton();

btnTwo22 = new javax.swing.JButton();

btnDot1 = new javax.swing.JButton();

btnFive55 = new javax.swing.JButton();

btnConvert1 = new javax.swing.JButton();

btnFour44 = new javax.swing.JButton();

btnEight88 = new javax.swing.JButton();

textField3 = new javax.swing.JTextField();

textField4 = new javax.swing.JTextField();

jLabel4 = new javax.swing.JLabel();

jList1.setModel(new javax.swing.AbstractListModel<String>() {

String[] strings = { "Item 1", "Item 2", "Item 3", "Item 4", "Item 5" };

public int getSize() { return strings.length; }

public String getElementAt(int i) { return strings[i]; }

});

jScrollPane1.setViewportView(jList1);

jRadioButton1.setText("jRadioButton1");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Item 1", "Item 2", "Item 3", "Item 4" }));

jComboBox3.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Item 1", "Item 2", "Item 3", "Item 4" }));

jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Item 1", "Item 2", "Item 3", "Item 4" }));

jComboBox4.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Item 1", "Item 2", "Item 3", "Item 4" }));

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

jTabbedPane1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

btnOne.setFont(new java.awt.Font("Tahoma", 1, 12));

btnOne.setText("1");

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

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

btnOneActionPerformed(evt);

}

});

btnEqual.setFont(new java.awt.Font("Tahoma", 1, 12));

btnEqual.setText("=");

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

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

btnEqualActionPerformed(evt);

}

});

btnFive.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFive.setText("5");

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

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

btnFiveActionPerformed(evt);

}

});

btnZero.setFont(new java.awt.Font("Tahoma", 1, 12));

btnZero.setText("0");

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

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

btnZeroActionPerformed(evt);

}

});

btnSix.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSix.setText("6");

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

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

btnSixActionPerformed(evt);

}

});

btnClear.setFont(new java.awt.Font("Tahoma", 1, 12));

btnClear.setForeground(new java.awt.Color(255, 153, 51));

btnClear.setText("AC");

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

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

btnClearActionPerformed(evt);

}

});

btnFour.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFour.setText("4");

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

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

btnFourActionPerformed(evt);

}

});

btnPercent.setFont(new java.awt.Font("Tahoma", 1, 12));

btnPercent.setText("%");

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

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

btnPercentActionPerformed(evt);

}

});

btnEight.setFont(new java.awt.Font("Tahoma", 1, 12));

btnEight.setText("8");

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

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

btnEightActionPerformed(evt);

}

});

btnPoint.setFont(new java.awt.Font("Tahoma", 1, 12));

btnPoint.setText(".");

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

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

btnPointActionPerformed(evt);

}

});

btnNine.setFont(new java.awt.Font("Tahoma", 1, 12));

btnNine.setText("9");

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

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

btnNineActionPerformed(evt);

}

});

btnNSquare.setFont(new java.awt.Font("Tahoma", 1, 11));

btnNSquare.setText("<html>X<sup>n</sup></html>");

btnNSquare.setToolTipText("");

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

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

btnNSquareActionPerformed(evt);

}

});

btnSeven.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSeven.setText("7");

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

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

btnSevenActionPerformed(evt);

}

});

btnSubtract.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSubtract.setText("-");

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

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

btnSubtractActionPerformed(evt);

}

});

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

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

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

txtDisplayActionPerformed(evt);

}

});

btnPlus.setFont(new java.awt.Font("Tahoma", 1, 12));

btnPlus.setText("+");

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

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

btnPlusActionPerformed(evt);

}

});

btnTwo.setFont(new java.awt.Font("Tahoma", 1, 12));

btnTwo.setText("2");

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

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

btnTwoActionPerformed(evt);

}

});

btnDivision.setFont(new java.awt.Font("Tahoma", 1, 12));

btnDivision.setText("/");

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

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

btnDivisionActionPerformed(evt);

}

});

btnThree.setFont(new java.awt.Font("Tahoma", 1, 12));

btnThree.setText("3");

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

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

btnThreeActionPerformed(evt);

}

});

btnMultiply.setFont(new java.awt.Font("Tahoma", 1, 12));

btnMultiply.setText("\*");

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

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

btnMultiplyActionPerformed(evt);

}

});

btnBackspace1.setFont(new java.awt.Font("Tahoma", 1, 12));

btnBackspace1.setText("<--");

btnBackspace1.addActionListener(new java.awt.event.ActionListener() {

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

btnBackspace1ActionPerformed(evt);

}

});

btnFact.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFact.setText("!");

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

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

btnFactActionPerformed(evt);

}

});

btnTan.setFont(new java.awt.Font("Tahoma", 1, 12));

btnTan.setText("tan");

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

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

btnTanActionPerformed(evt);

}

});

btnCos.setFont(new java.awt.Font("Tahoma", 1, 12));

btnCos.setText("cos");

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

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

btnCosActionPerformed(evt);

}

});

btnSin.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSin.setText("sin");

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

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

btnSinActionPerformed(evt);

}

});

btnLog.setFont(new java.awt.Font("Tahoma", 1, 12));

btnLog.setText("log");

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

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

btnLogActionPerformed(evt);

}

});

btnE.setFont(new java.awt.Font("Tahoma", 1, 12));

btnE.setText("e");

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

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

btnEActionPerformed(evt);

}

});

btnPi.setFont(new java.awt.Font("Tahoma", 1, 12));

btnPi.setText("pi");

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

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

btnPiActionPerformed(evt);

}

});

btnSqrt.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSqrt.setText("Sqrt");

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

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

btnSqrtActionPerformed(evt);

}

});

btnCbrt.setFont(new java.awt.Font("Tahoma", 1, 12));

btnCbrt.setText("Cbrt");

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

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

btnCbrtActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(28, 28, 28)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(btnClear, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnBackspace1, javax.swing.GroupLayout.PREFERRED\_SIZE, 58, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnSqrt, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnCbrt, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnPlus, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(txtDisplay, javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(btnFact, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

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

.addComponent(btnSin, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(7, 7, 7)

.addComponent(btnOne, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnTwo, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel1Layout.createSequentialGroup()

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

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

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

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(jPanel1Layout.createSequentialGroup()

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

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

.addComponent(btnPercent, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnZero, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addComponent(btnCos, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnFour, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnFive, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addComponent(btnTan, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnSeven, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnEight, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))))))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addComponent(btnSix, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnDivision, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addComponent(btnThree, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnMultiply, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addComponent(btnNSquare, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnSubtract, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnNine, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnPoint, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addComponent(btnEqual, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)))))

.addGap(15, 15, 15))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addComponent(txtDisplay, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnBackspace1, javax.swing.GroupLayout.DEFAULT\_SIZE, 44, Short.MAX\_VALUE)

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

.addComponent(btnPlus, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(btnCbrt, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(btnSqrt, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(btnPi, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(btnSubtract, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnNSquare, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFact, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(btnE, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnTwo, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnThree, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnOne, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSin, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnMultiply, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnFour, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFive, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSix, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnCos, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnDivision, javax.swing.GroupLayout.PREFERRED\_SIZE, 43, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnTan, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, 46, Short.MAX\_VALUE)

.addComponent(btnSeven, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(btnEight, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnZero, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnPoint, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnPercent, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnLog, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE))))

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

.addGap(24, 24, 24))

);

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addGap(58, 58, 58))

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addContainerGap())

);

jTabbedPane1.addTab("Calculator", jPanel2);

btnSix6.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSix6.setText("6");

btnSix6.addActionListener(new java.awt.event.ActionListener() {

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

btnSix6ActionPerformed(evt);

}

});

btnBackspace.setFont(new java.awt.Font("Tahoma", 1, 12));

btnBackspace.setText("<--");

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

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

btnBackspaceActionPerformed(evt);

}

});

btnFour4.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFour4.setText("4");

btnFour4.addActionListener(new java.awt.event.ActionListener() {

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

btnFour4ActionPerformed(evt);

}

});

btnEight8.setFont(new java.awt.Font("Tahoma", 1, 12));

btnEight8.setText("8");

btnEight8.addActionListener(new java.awt.event.ActionListener() {

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

btnEight8ActionPerformed(evt);

}

});

item2.setFont(new java.awt.Font("Tahoma", 1, 11));

item2.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Fahrenheit", "Kelvin", "Celsius" }));

item2.addActionListener(new java.awt.event.ActionListener() {

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

item2ActionPerformed(evt);

}

});

btnNine9.setFont(new java.awt.Font("Tahoma", 1, 12));

btnNine9.setText("9");

btnNine9.addActionListener(new java.awt.event.ActionListener() {

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

btnNine9ActionPerformed(evt);

}

});

item1.setFont(new java.awt.Font("Tahoma", 1, 11));

item1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Celsius", "Fahrenheit", "Kelvin" }));

item1.addActionListener(new java.awt.event.ActionListener() {

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

item1ActionPerformed(evt);

}

});

btnSeven7.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSeven7.setText("7");

btnSeven7.addActionListener(new java.awt.event.ActionListener() {

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

btnSeven7ActionPerformed(evt);

}

});

textField2.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

btnZero0.setFont(new java.awt.Font("Tahoma", 1, 12));

btnZero0.setText("0");

btnZero0.addActionListener(new java.awt.event.ActionListener() {

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

btnZero0ActionPerformed(evt);

}

});

btnDot.setFont(new java.awt.Font("Tahoma", 1, 12));

btnDot.setText(".");

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

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

btnDotActionPerformed(evt);

}

});

btnTwo2.setFont(new java.awt.Font("Tahoma", 1, 12));

btnTwo2.setText("2");

btnTwo2.addActionListener(new java.awt.event.ActionListener() {

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

btnTwo2ActionPerformed(evt);

}

});

btnAC.setFont(new java.awt.Font("Tahoma", 1, 12));

btnAC.setForeground(new java.awt.Color(255, 153, 51));

btnAC.setText("AC");

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

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

btnACActionPerformed(evt);

}

});

btnThree3.setFont(new java.awt.Font("Tahoma", 1, 12));

btnThree3.setText("3");

btnThree3.addActionListener(new java.awt.event.ActionListener() {

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

btnThree3ActionPerformed(evt);

}

});

btnOne1.setFont(new java.awt.Font("Tahoma", 1, 12));

btnOne1.setText("1");

btnOne1.addActionListener(new java.awt.event.ActionListener() {

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

btnOne1ActionPerformed(evt);

}

});

btnFive5.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFive5.setText("5");

btnFive5.addActionListener(new java.awt.event.ActionListener() {

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

btnFive5ActionPerformed(evt);

}

});

btnPlusMinus.setFont(new java.awt.Font("Tahoma", 1, 12));

btnPlusMinus.setText("+/-");

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

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

btnPlusMinusActionPerformed(evt);

}

});

btnConvert.setFont(new java.awt.Font("Tahoma", 1, 12));

btnConvert.setText("Convert");

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

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

btnConvertActionPerformed(evt);

}

});

textField1.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

textField1.setText("0");

jLabel1.setFont(new java.awt.Font("Arial", 1, 24));

jLabel1.setText("Temperature Converter");

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(76, 76, 76)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(btnOne1, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnTwo2, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnThree3, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnAC, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(8, 8, 8))

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(btnFour4, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnFive5, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(btnSeven7, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnEight8, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(btnSix6, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnNine9, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnBackspace, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnPlusMinus, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addComponent(btnDot, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnZero0, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnConvert, javax.swing.GroupLayout.PREFERRED\_SIZE, 120, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addComponent(item2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(textField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 154, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addComponent(item1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(textField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 154, javax.swing.GroupLayout.PREFERRED\_SIZE)))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addContainerGap(68, Short.MAX\_VALUE)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 274, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(28, 28, 28))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(20, 20, 20)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(28, 28, 28)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(item1, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(textField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(item2, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(textField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnAC, javax.swing.GroupLayout.PREFERRED\_SIZE, 43, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnThree3, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnTwo2, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnOne1, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnBackspace, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFour4, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSix6, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFive5, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnPlusMinus, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnNine9, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnEight8, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSeven7, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnConvert, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnZero0, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnDot, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(60, Short.MAX\_VALUE))

);

jTabbedPane1.addTab("Temperature", jPanel3);

btnDot3.setFont(new java.awt.Font("Tahoma", 1, 12));

btnDot3.setText(".");

btnDot3.addActionListener(new java.awt.event.ActionListener() {

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

btnDot3ActionPerformed(evt);

}

});

textField8.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

btnZero0000.setFont(new java.awt.Font("Tahoma", 1, 12));

btnZero0000.setText("0");

btnZero0000.addActionListener(new java.awt.event.ActionListener() {

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

btnZero0000ActionPerformed(evt);

}

});

btnOne1111.setFont(new java.awt.Font("Tahoma", 1, 12));

btnOne1111.setText("1");

btnOne1111.addActionListener(new java.awt.event.ActionListener() {

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

btnOne1111ActionPerformed(evt);

}

});

btnConvert3.setFont(new java.awt.Font("Tahoma", 1, 12));

btnConvert3.setText("Convert");

btnConvert3.addActionListener(new java.awt.event.ActionListener() {

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

btnConvert3ActionPerformed(evt);

}

});

btnTwo2222.setFont(new java.awt.Font("Tahoma", 1, 12));

btnTwo2222.setText("2");

btnTwo2222.addActionListener(new java.awt.event.ActionListener() {

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

btnTwo2222ActionPerformed(evt);

}

});

btnAC3.setFont(new java.awt.Font("Tahoma", 1, 12));

btnAC3.setForeground(new java.awt.Color(255, 153, 51));

btnAC3.setText("AC");

btnAC3.addActionListener(new java.awt.event.ActionListener() {

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

btnAC3ActionPerformed(evt);

}

});

btnThree3333.setFont(new java.awt.Font("Tahoma", 1, 12));

btnThree3333.setText("3");

btnThree3333.addActionListener(new java.awt.event.ActionListener() {

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

btnThree3333ActionPerformed(evt);

}

});

btnBackspace4.setFont(new java.awt.Font("Tahoma", 1, 12));

btnBackspace4.setText("<--");

btnBackspace4.addActionListener(new java.awt.event.ActionListener() {

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

btnBackspace4ActionPerformed(evt);

}

});

btnFour4444.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFour4444.setText("4");

btnFour4444.addActionListener(new java.awt.event.ActionListener() {

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

btnFour4444ActionPerformed(evt);

}

});

btnFive5555.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFive5555.setText("5");

btnFive5555.addActionListener(new java.awt.event.ActionListener() {

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

btnFive5555ActionPerformed(evt);

}

});

btnSix6666.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSix6666.setText("6");

btnSix6666.addActionListener(new java.awt.event.ActionListener() {

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

btnSix6666ActionPerformed(evt);

}

});

btnSeven7777.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSeven7777.setText("7");

btnSeven7777.addActionListener(new java.awt.event.ActionListener() {

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

btnSeven7777ActionPerformed(evt);

}

});

item7.setFont(new java.awt.Font("Tahoma", 1, 11));

item7.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Kilometre", "Metre", "Mile", "Yard", "Foot", "Inch" }));

item7.addActionListener(new java.awt.event.ActionListener() {

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

item7ActionPerformed(evt);

}

});

btnEight8888.setFont(new java.awt.Font("Tahoma", 1, 12));

btnEight8888.setText("8");

btnEight8888.addActionListener(new java.awt.event.ActionListener() {

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

btnEight8888ActionPerformed(evt);

}

});

item8.setFont(new java.awt.Font("Tahoma", 1, 11));

item8.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Metre", "Kilometre", "Mile", "Yard", "Foot", "Inch" }));

item8.addActionListener(new java.awt.event.ActionListener() {

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

item8ActionPerformed(evt);

}

});

btnNine9999.setFont(new java.awt.Font("Tahoma", 1, 12));

btnNine9999.setText("9");

btnNine9999.addActionListener(new java.awt.event.ActionListener() {

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

btnNine9999ActionPerformed(evt);

}

});

textField7.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

textField7.setText("0");

jLabel2.setFont(new java.awt.Font("Arial", 1, 24));

jLabel2.setText(" Length Converter");

javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);

jPanel6.setLayout(jPanel6Layout);

jPanel6Layout.setHorizontalGroup(

jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()

.addContainerGap(73, Short.MAX\_VALUE)

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 240, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel6Layout.createSequentialGroup()

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()

.addComponent(btnFour4444, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnFive5555, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()

.addComponent(btnDot3, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnZero0000, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()

.addComponent(btnSeven7777, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnEight8888, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()

.addComponent(btnOne1111, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnTwo2222, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(btnConvert3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnNine9999, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSix6666, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnThree3333, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnBackspace4, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnAC3, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))))

.addGroup(jPanel6Layout.createSequentialGroup()

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel6Layout.createSequentialGroup()

.addComponent(item8, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGroup(jPanel6Layout.createSequentialGroup()

.addComponent(item7, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(10, 10, 10)))

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(textField7, javax.swing.GroupLayout.DEFAULT\_SIZE, 144, Short.MAX\_VALUE)

.addComponent(textField8)))))

.addGap(51, 51, 51))

);

jPanel6Layout.setVerticalGroup(

jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel6Layout.createSequentialGroup()

.addGap(27, 27, 27)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(34, 34, 34)

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(textField7, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(item7, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(item8, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(textField8, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addComponent(btnAC3, javax.swing.GroupLayout.PREFERRED\_SIZE, 91, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel6Layout.createSequentialGroup()

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnThree3333, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnTwo2222, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnOne1111, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnSix6666, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFive5555, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFour4444, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))))

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

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnBackspace4, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnNine9999, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnEight8888, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSeven7777, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnConvert3, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnZero0000, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnDot3, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(47, Short.MAX\_VALUE))

);

jTabbedPane1.addTab("Length", jPanel6);

btnSeven777.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSeven777.setText("7");

btnSeven777.addActionListener(new java.awt.event.ActionListener() {

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

btnSeven777ActionPerformed(evt);

}

});

item6.setFont(new java.awt.Font("Tahoma", 1, 11));

item6.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Gramme", "Kilogramme", "Quintal", "Tonne", "Pound" }));

item6.addActionListener(new java.awt.event.ActionListener() {

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

item6ActionPerformed(evt);

}

});

btnEight888.setFont(new java.awt.Font("Tahoma", 1, 12));

btnEight888.setText("8");

btnEight888.addActionListener(new java.awt.event.ActionListener() {

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

btnEight888ActionPerformed(evt);

}

});

btnNine999.setFont(new java.awt.Font("Tahoma", 1, 12));

btnNine999.setText("9");

btnNine999.addActionListener(new java.awt.event.ActionListener() {

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

btnNine999ActionPerformed(evt);

}

});

btnDot2.setFont(new java.awt.Font("Tahoma", 1, 12));

btnDot2.setText(".");

btnDot2.addActionListener(new java.awt.event.ActionListener() {

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

btnDot2ActionPerformed(evt);

}

});

btnZero000.setFont(new java.awt.Font("Tahoma", 1, 12));

btnZero000.setText("0");

btnZero000.addActionListener(new java.awt.event.ActionListener() {

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

btnZero000ActionPerformed(evt);

}

});

btnAC2.setFont(new java.awt.Font("Tahoma", 1, 12));

btnAC2.setText("AC");

btnAC2.addActionListener(new java.awt.event.ActionListener() {

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

btnAC2ActionPerformed(evt);

}

});

btnConvert2.setFont(new java.awt.Font("Tahoma", 1, 12));

btnConvert2.setText("Convert");

btnConvert2.addActionListener(new java.awt.event.ActionListener() {

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

btnConvert2ActionPerformed(evt);

}

});

btnBackspace3.setFont(new java.awt.Font("Tahoma", 1, 12));

btnBackspace3.setText("<--");

btnBackspace3.addActionListener(new java.awt.event.ActionListener() {

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

btnBackspace3ActionPerformed(evt);

}

});

textField5.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

textField5.setText("0");

textField6.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

item5.setFont(new java.awt.Font("Tahoma", 1, 11));

item5.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Kilogramme", "Gramme", "Quintal", "Tonne", "Pound" }));

item5.addActionListener(new java.awt.event.ActionListener() {

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

item5ActionPerformed(evt);

}

});

btnOne111.setFont(new java.awt.Font("Tahoma", 1, 12));

btnOne111.setText("1");

btnOne111.addActionListener(new java.awt.event.ActionListener() {

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

btnOne111ActionPerformed(evt);

}

});

btnTwo222.setFont(new java.awt.Font("Tahoma", 1, 12));

btnTwo222.setText("2");

btnTwo222.addActionListener(new java.awt.event.ActionListener() {

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

btnTwo222ActionPerformed(evt);

}

});

btnThree333.setFont(new java.awt.Font("Tahoma", 1, 12));

btnThree333.setText("3");

btnThree333.addActionListener(new java.awt.event.ActionListener() {

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

btnThree333ActionPerformed(evt);

}

});

btnFour444.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFour444.setText("4");

btnFour444.addActionListener(new java.awt.event.ActionListener() {

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

btnFour444ActionPerformed(evt);

}

});

btnFive555.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFive555.setText("5");

btnFive555.addActionListener(new java.awt.event.ActionListener() {

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

btnFive555ActionPerformed(evt);

}

});

btnSix666.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSix666.setText("6");

btnSix666.addActionListener(new java.awt.event.ActionListener() {

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

btnSix666ActionPerformed(evt);

}

});

jLabel3.setFont(new java.awt.Font("Arial", 1, 24));

jLabel3.setText(" Mass Converter");

javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);

jPanel5.setLayout(jPanel5Layout);

jPanel5Layout.setHorizontalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel5Layout.createSequentialGroup()

.addGap(57, 57, 57)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(jPanel5Layout.createSequentialGroup()

.addGap(1, 1, 1)

.addComponent(btnDot2, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnZero000, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnConvert2, javax.swing.GroupLayout.PREFERRED\_SIZE, 120, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 240, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel5Layout.createSequentialGroup()

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(item5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(item6, 0, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(textField6, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 141, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(textField5, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 141, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(jPanel5Layout.createSequentialGroup()

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel5Layout.createSequentialGroup()

.addComponent(btnOne111, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnTwo222, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel5Layout.createSequentialGroup()

.addComponent(btnFour444, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnFive555, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel5Layout.createSequentialGroup()

.addComponent(btnSeven777, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnEight888, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(6, 6, 6)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(btnSix666, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnNine999, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnThree333, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(btnBackspace3, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnAC2, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))))

.addContainerGap(66, Short.MAX\_VALUE))

);

jPanel5Layout.setVerticalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel5Layout.createSequentialGroup()

.addGap(20, 20, 20)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(26, 26, 26)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(textField5, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(item5, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(11, 11, 11)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(textField6, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(item6, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnAC2, javax.swing.GroupLayout.PREFERRED\_SIZE, 91, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel5Layout.createSequentialGroup()

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnThree333, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnTwo222, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnOne111, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnSix666, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFive555, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFour444, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))))

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

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnBackspace3, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnNine999, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnEight888, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSeven777, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnConvert2, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnZero000, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnDot2, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(62, Short.MAX\_VALUE))

);

jTabbedPane1.addTab("Mass", jPanel5);

btnSeven77.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSeven77.setText("7");

btnSeven77.addActionListener(new java.awt.event.ActionListener() {

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

btnSeven77ActionPerformed(evt);

}

});

btnThree33.setFont(new java.awt.Font("Tahoma", 1, 12));

btnThree33.setText("3");

btnThree33.addActionListener(new java.awt.event.ActionListener() {

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

btnThree33ActionPerformed(evt);

}

});

item4.setFont(new java.awt.Font("Tahoma", 1, 11));

item4.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Second", "Day", "Year", "Hour", "Minute" }));

item4.addActionListener(new java.awt.event.ActionListener() {

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

item4ActionPerformed(evt);

}

});

btnSix66.setFont(new java.awt.Font("Tahoma", 1, 12));

btnSix66.setText("6");

btnSix66.addActionListener(new java.awt.event.ActionListener() {

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

btnSix66ActionPerformed(evt);

}

});

item3.setFont(new java.awt.Font("Tahoma", 1, 11));

item3.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Hour", "Minute", "Second", "Day", "Year" }));

item3.addActionListener(new java.awt.event.ActionListener() {

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

item3ActionPerformed(evt);

}

});

btnNine99.setFont(new java.awt.Font("Tahoma", 1, 12));

btnNine99.setText("9");

btnNine99.addActionListener(new java.awt.event.ActionListener() {

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

btnNine99ActionPerformed(evt);

}

});

btnAC1.setFont(new java.awt.Font("Tahoma", 1, 12));

btnAC1.setText("AC");

btnAC1.addActionListener(new java.awt.event.ActionListener() {

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

btnAC1ActionPerformed(evt);

}

});

btnBackspace2.setFont(new java.awt.Font("Tahoma", 1, 12));

btnBackspace2.setText("<--");

btnBackspace2.addActionListener(new java.awt.event.ActionListener() {

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

btnBackspace2ActionPerformed(evt);

}

});

btnOne11.setFont(new java.awt.Font("Tahoma", 1, 12));

btnOne11.setText("1");

btnOne11.addActionListener(new java.awt.event.ActionListener() {

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

btnOne11ActionPerformed(evt);

}

});

btnZero00.setFont(new java.awt.Font("Tahoma", 1, 12));

btnZero00.setText("0");

btnZero00.addActionListener(new java.awt.event.ActionListener() {

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

btnZero00ActionPerformed(evt);

}

});

btnTwo22.setFont(new java.awt.Font("Tahoma", 1, 12));

btnTwo22.setText("2");

btnTwo22.addActionListener(new java.awt.event.ActionListener() {

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

btnTwo22ActionPerformed(evt);

}

});

btnDot1.setFont(new java.awt.Font("Tahoma", 1, 12));

btnDot1.setText(".");

btnDot1.addActionListener(new java.awt.event.ActionListener() {

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

btnDot1ActionPerformed(evt);

}

});

btnFive55.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFive55.setText("5");

btnFive55.addActionListener(new java.awt.event.ActionListener() {

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

btnFive55ActionPerformed(evt);

}

});

btnConvert1.setFont(new java.awt.Font("Tahoma", 1, 12));

btnConvert1.setText("Convert");

btnConvert1.addActionListener(new java.awt.event.ActionListener() {

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

btnConvert1ActionPerformed(evt);

}

});

btnFour44.setFont(new java.awt.Font("Tahoma", 1, 12));

btnFour44.setText("4");

btnFour44.addActionListener(new java.awt.event.ActionListener() {

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

btnFour44ActionPerformed(evt);

}

});

btnEight88.setFont(new java.awt.Font("Tahoma", 1, 12));

btnEight88.setText("8");

btnEight88.addActionListener(new java.awt.event.ActionListener() {

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

btnEight88ActionPerformed(evt);

}

});

textField3.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

textField3.setText("0");

textField4.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

jLabel4.setFont(new java.awt.Font("Arial", 1, 28));

jLabel4.setText(" Time Converter");

javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);

jPanel4.setLayout(jPanel4Layout);

jPanel4Layout.setHorizontalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()

.addContainerGap(72, Short.MAX\_VALUE)

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel4Layout.createSequentialGroup()

.addComponent(btnSeven77, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnEight88, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnNine99, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel4Layout.createSequentialGroup()

.addComponent(btnFour44, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnFive55, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnSix66, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel4Layout.createSequentialGroup()

.addComponent(btnOne11, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnTwo22, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnThree33, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(btnBackspace2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnAC1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()

.addComponent(btnDot1, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnZero00, javax.swing.GroupLayout.PREFERRED\_SIZE, 57, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnConvert1, javax.swing.GroupLayout.PREFERRED\_SIZE, 120, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel4Layout.createSequentialGroup()

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(item3, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(item4, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(textField4)

.addComponent(textField3))))

.addGap(52, 52, 52))

.addGroup(jPanel4Layout.createSequentialGroup()

.addGap(57, 57, 57)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 240, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

jPanel4Layout.setVerticalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel4Layout.createSequentialGroup()

.addGap(36, 36, 36)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(29, 29, 29)

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(item3, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(textField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(textField4, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(item4, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(jPanel4Layout.createSequentialGroup()

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnThree33, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnTwo22, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnOne11, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnSix66, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFive55, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnFour44, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(btnAC1, javax.swing.GroupLayout.PREFERRED\_SIZE, 91, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnBackspace2, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnNine99, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnEight88, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnSeven77, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btnConvert1, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnZero00, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(btnDot1, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(36, Short.MAX\_VALUE))

);

jTabbedPane1.addTab("Time", jPanel4);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(19, 19, 19)

.addComponent(jTabbedPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 377, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(20, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jTabbedPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 443, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(21, Short.MAX\_VALUE))

);

pack();

}

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

}

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

String Enternumber = txtDisplay.getText()+btnOne.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnTwo.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnThree.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnFour.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnFive.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnSix.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnSeven.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnEight.getText();

txtDisplay.setText(Enternumber);

}

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

String Enternumber = txtDisplay.getText()+btnNine.getText();

txtDisplay.setText(Enternumber);

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText("");

operations="+";

}

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

String Enternumber = txtDisplay.getText();

if(Enternumber.length()>0){

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText("");

operations="-";

}

else{

txtDisplay.setText("-");

}

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText("");

operations="\*";

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText("");

operations="/";

}

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

String Enternumber = txtDisplay.getText()+btnZero.getText();

txtDisplay.setText(Enternumber);

}

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

if(operations.equals("sin")||operations.equals("cos")||operations.equals("tan")||operations.equals("log")){

secondnum = Double.parseDouble(txtDisplay.getText().substring(4));

double t=java.lang.Math.toRadians(secondnum);

if(operations.equals("sin"))

result=java.lang.Math.sin(t);

else if(operations.equals("cos"))

result=java.lang.Math.cos(t);

else if(operations.equals("tan"))

result=java.lang.Math.tan(t);

else

result=java.lang.Math.log10(secondnum);

}

else{

secondnum = Double.parseDouble(txtDisplay.getText());

if(operations.equals("+"))

result = firstnum+secondnum;

else if(operations.equals("-"))

result = firstnum-secondnum;

else if(operations.equals("\*"))

result = firstnum\*secondnum;

else if(operations.equals("/"))

result = firstnum/secondnum;

else if(operations.equals("%"))

result = (firstnum/100)\*secondnum;

else if(operations.equals("^")){

for(int i=1; i<=secondnum; i++){

r = firstnum\*r;

}

result = r;

}

}

txtDisplay.setText(result+"");

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

for(int i=1; i<=firstnum; i++){

r=r\*i;

}

txtDisplay.setText(r+"");

}

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

String Enternumber = txtDisplay.getText();

if(Enternumber.length()==0){

txtDisplay.setText("tan(");

operations="tan";

}

}

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

String Enternumber = txtDisplay.getText();

if(Enternumber.length()==0){

txtDisplay.setText("cos(");

operations="cos";

}

}

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

String Enternumber = txtDisplay.getText();

if(Enternumber.length()==0){

txtDisplay.setText("sin(");

operations="sin";

}

}

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

String Enternumber = txtDisplay.getText();

if(Enternumber.length()==0){

txtDisplay.setText("log(");

operations="log";

}

}

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

secondnum = 0;

r=1;

result=0;

txtDisplay.setText("");

}

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

String Enternumber = txtDisplay.getText();

if(Enternumber.indexOf('.')<0)

Enternumber = txtDisplay.getText()+btnPoint.getText();

else

Enternumber = txtDisplay.getText();

txtDisplay.setText(Enternumber);

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText("");

operations = "%";

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText("");

operations = "^";

}

private void item2ActionPerformed(java.awt.event.ActionEvent evt) {

i2 = (String)item2.getSelectedItem();

}

private void item1ActionPerformed(java.awt.event.ActionEvent evt) {

i1 = (String)item1.getSelectedItem();

}

private void btnTwo2ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnTwo2.getText();

textField1.setText(Enternumber);

}

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

temp = Double.parseDouble(textField1.getText());

if(i1.equals("Celsius") && i2.equals("Fahrenheit"))

temperature = (temp\*1.8)+32;

else if(i1.equals("Celsius") && i2.equals("Kelvin"))

temperature = (temp+273.15);

else if(i1.equals("Celsius") && i2.equals("Celsius"))

temperature = temp;

else if(i1.equals("Kelvin") && i2.equals("Kelvin"))

temperature = temp;

else if(i1.equals("Kelvin") && i2.equals("Celsius"))

temperature = temp-273.15;

else if(i1.equals("Kelvin") && i2.equals("Fahrenheit"))

temperature = 1.8\*(temp-273.15)+32;

else if(i1.equals("Fahrenheit") && i2.equals("Celsius"))

temperature = (temp-32)/1.8;

else if(i1.equals("Fahrenheit") && i2.equals("Kelvin"))

temperature = (temp-32)/1.8+273.15;

else if(i1.equals("Fahrenheit") && i2.equals("Fahrenheit"))

temperature = temp;

textField2.setText(temperature+"");

}

private void btnOne1ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnOne1.getText();

textField1.setText(Enternumber);

}

private void btnFive5ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnFive5.getText();

textField1.setText(Enternumber);

}

private void btnSix6ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnSix6.getText();

textField1.setText(Enternumber);

}

private void btnFour4ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnFour4.getText();

textField1.setText(Enternumber);

}

private void btnEight8ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnEight8.getText();

textField1.setText(Enternumber);

}

private void btnNine9ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnNine9.getText();

textField1.setText(Enternumber);

}

private void btnSeven7ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnSeven7.getText();

textField1.setText(Enternumber);

}

private void btnZero0ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnZero0.getText();

textField1.setText(Enternumber);

}

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

String Enternumber = textField1.getText();

if(Enternumber.indexOf('.')<0)

Enternumber = textField1.getText()+btnPoint.getText();

else

Enternumber = textField1.getText();

textField1.setText(Enternumber);

}

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

textField1.setText("0");

textField2.setText("");

}

private void btnThree3ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField1.getText()+btnThree3.getText();

textField1.setText(Enternumber);

}

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

double t = Double.parseDouble(textField1.getText());

if(t>0 || t<0)

textField1.setText(-t+"");

}

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

String s;

if(textField1.getText().length()>0){

StringBuilder st = new StringBuilder(textField1.getText());

st.deleteCharAt(textField1.getText().length()-1);

s = st.toString();

textField1.setText(s);

}

}

private void btnBackspace1ActionPerformed(java.awt.event.ActionEvent evt) {

String s;

if(txtDisplay.getText().length()>0){

StringBuilder st = new StringBuilder(txtDisplay.getText());

st.deleteCharAt(txtDisplay.getText().length()-1);

s = st.toString();

txtDisplay.setText(s);

}

}

private void item4ActionPerformed(java.awt.event.ActionEvent evt) {

i4 = (String)item4.getSelectedItem();

}

private void item3ActionPerformed(java.awt.event.ActionEvent evt) {

i3 = (String)item3.getSelectedItem();

}

private void btnOne11ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnOne11.getText();

textField3.setText(Enternumber);

}

private void btnTwo22ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnTwo22.getText();

textField3.setText(Enternumber);

}

private void btnFive55ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnFive55.getText();

textField3.setText(Enternumber);

}

private void btnFour44ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnFour44.getText();

textField3.setText(Enternumber);

}

private void btnEight88ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnEight88.getText();

textField3.setText(Enternumber);

}

private void btnSeven77ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnSeven77.getText();

textField3.setText(Enternumber);

}

private void btnThree33ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnThree33.getText();

textField3.setText(Enternumber);

}

private void btnSix66ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnSix66.getText();

textField3.setText(Enternumber);

}

private void btnNine99ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnNine99.getText();

textField3.setText(Enternumber);

}

private void btnAC1ActionPerformed(java.awt.event.ActionEvent evt) {

textField3.setText("0");

textField4.setText("");

}

private void btnBackspace2ActionPerformed(java.awt.event.ActionEvent evt) {

String s;

if(textField3.getText().length()>0){

StringBuilder st = new StringBuilder(textField3.getText());

st.deleteCharAt(textField3.getText().length()-1);

s = st.toString();

textField3.setText(s);

}

}

private void btnZero00ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText()+btnZero00.getText();

textField3.setText(Enternumber);

}

private void btnDot1ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField3.getText();

if(Enternumber.indexOf('.')<0)

Enternumber = textField3.getText()+btnPoint.getText();

else

Enternumber = textField3.getText();

textField3.setText(Enternumber);

}

private void btnConvert1ActionPerformed(java.awt.event.ActionEvent evt) {

ti = Double.parseDouble(textField3.getText());

if(i3.equals("Year") && i4.equals("Second"))

time = ti\*31536000;

else if(i3.equals("Year") && i4.equals("Hour"))

time = ti\*8760;

else if(i3.equals("Year") && i4.equals("Day"))

time = ti\*365;

else if(i3.equals("Year") && i4.equals("Year"))

time = ti;

else if(i3.equals("Year") && i4.equals("Minute"))

time = ti\*525600;

else if(i3.equals("Day") && i4.equals("Second"))

time = ti\*86400;

else if(i3.equals("Day") && i4.equals("Hour"))

time = ti\*24;

else if(i3.equals("Day") && i4.equals("Day"))

time = ti;

else if(i3.equals("Day") && i4.equals("Year"))

time = ti/365;

else if(i3.equals("Day") && i4.equals("Minute"))

time = ti\*1440;

else if(i3.equals("Hour") && i4.equals("Second"))

time = ti\*3600;

else if(i3.equals("Hour") && i4.equals("Hour"))

time = ti;

else if(i3.equals("Hour") && i4.equals("Day"))

time = ti/24;

else if(i3.equals("Hour") && i4.equals("Year"))

time = ti/8760;

else if(i3.equals("Hour") && i4.equals("Minute"))

time = ti\*60;

else if(i3.equals("Minute") && i4.equals("Second"))

time = ti\*60;

else if(i3.equals("Minute") && i4.equals("Hour"))

time = ti/60;

else if(i3.equals("Minute") && i4.equals("Day"))

time = ti/1440;

else if(i3.equals("Minute") && i4.equals("Year"))

time = ti/525600;

else if(i3.equals("Minute") && i4.equals("Minute"))

time = ti;

else if(i3.equals("Second") && i4.equals("Second"))

time = ti;

else if(i3.equals("Second") && i4.equals("Hour"))

time = ti/3600;

else if(i3.equals("Second") && i4.equals("Day"))

time = ti/86400;

else if(i3.equals("Second") && i4.equals("Year"))

time = ti/315360000;

else if(i3.equals("Second") && i4.equals("Minute"))

time = ti/60;

textField4.setText(time+"");

}

private void item6ActionPerformed(java.awt.event.ActionEvent evt) {

i6 = (String)item6.getSelectedItem();

}

private void btnOne111ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnOne111.getText();

textField5.setText(Enternumber);

}

private void btnTwo222ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnTwo222.getText();

textField5.setText(Enternumber);

}

private void btnThree333ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnThree333.getText();

textField5.setText(Enternumber);

}

private void btnFour444ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnFour444.getText();

textField5.setText(Enternumber);

}

private void btnFive555ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnFive555.getText();

textField5.setText(Enternumber);

}

private void btnSix666ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnSix666.getText();

textField5.setText(Enternumber);

}

private void btnSeven777ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnSeven777.getText();

textField5.setText(Enternumber);

}

private void btnEight888ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnEight888.getText();

textField5.setText(Enternumber);

}

private void btnNine999ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnNine999.getText();

textField5.setText(Enternumber);

}

private void btnDot2ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText();

if(Enternumber.indexOf('.')<0)

Enternumber = textField5.getText()+btnPoint.getText();

else

Enternumber = textField5.getText();

textField5.setText(Enternumber);

}

private void btnZero000ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField5.getText()+btnZero000.getText();

textField5.setText(Enternumber);

}

private void btnAC2ActionPerformed(java.awt.event.ActionEvent evt) {

textField6.setText("");

}

private void btnConvert2ActionPerformed(java.awt.event.ActionEvent evt) {

ma = Double.parseDouble(textField5.getText());

if(i5.equals("Kilogramme") && i6.equals("Gramme"))

mass = ma\*1000;

else if(i5.equals("Kilogramme") && i6.equals("Kilogramme"))

mass = ma;

else if(i5.equals("Kilogramme") && i6.equals("Tonne"))

mass = ma/1000;

else if(i5.equals("Kilogramme") && i6.equals("Quintal"))

mass = ma/100;

else if(i5.equals("Kilogramme") && i6.equals("Pound"))

mass = ma\*2.20462262;

else if(i5.equals("Quintal") && i6.equals("Pound"))

mass = ma\*220.462262;

else if(i5.equals("Quintal") && i6.equals("Kilogramme"))

mass = ma\*100;

else if(i5.equals("Quintal") && i6.equals("Gramme"))

mass = ma\*100000;

else if(i5.equals("Quintal") && i6.equals("Quintal"))

mass = ma;

else if(i5.equals("Quintal") && i6.equals("Tonne"))

mass = ma/10;

else if(i5.equals("Tonne") && i6.equals("Tonne"))

mass = ma;

else if(i5.equals("Tonne") && i6.equals("Kilogramme"))

mass = ma\*1000;

else if(i5.equals("Tonne") && i6.equals("Gramme"))

mass = ma\*1000000;

else if(i5.equals("Tonne") && i6.equals("Quintal"))

mass = ma\*10;

else if(i5.equals("Tonne") && i6.equals("Pound"))

mass = ma\*2204.62262;

else if(i5.equals("Gramme") && i6.equals("Pound"))

mass = ma/453.59237;

else if(i5.equals("Gramme") && i6.equals("Kilogramme"))

mass = ma/1000;

else if(i5.equals("Gramme") && i6.equals("Quintal"))

mass = ma/100000;

else if(i5.equals("Gramme") && i6.equals("Tonne"))

mass = ma/1000000;

else if(i5.equals("Gramme") && i6.equals("Gramme"))

mass = ma;

else if(i5.equals("Pound") && i6.equals("Tonne"))

mass = ma/2204.62262;

else if(i5.equals("Pound") && i6.equals("Gramme"))

mass = ma\*453.59237;

else if(i5.equals("Pound") && i6.equals("Kilogramme"))

mass = ma/2.20462262;

else if(i5.equals("Pound") && i6.equals("Quintal"))

mass = ma/220.462262;

else if(i5.equals("Pound") && i6.equals("Pound"))

mass = ma;

textField6.setText(mass+"");

}

private void btnBackspace3ActionPerformed(java.awt.event.ActionEvent evt) {

String s;

if(textField5.getText().length()>0){

StringBuilder st = new StringBuilder(textField5.getText());

st.deleteCharAt(textField5.getText().length()-1);

s = st.toString();

textField5.setText(s);

}

}

private void item5ActionPerformed(java.awt.event.ActionEvent evt) {

i5 = (String)item5.getSelectedItem();

}

private void item7ActionPerformed(java.awt.event.ActionEvent evt) {

i7 = (String)item7.getSelectedItem();

}

private void item8ActionPerformed(java.awt.event.ActionEvent evt) {

i8 = (String)item8.getSelectedItem();

}

private void btnOne1111ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnOne1111.getText();

textField7.setText(Enternumber);

}

private void btnTwo2222ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnTwo2222.getText();

textField7.setText(Enternumber);

}

private void btnThree3333ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnThree3333.getText();

textField7.setText(Enternumber);

}

private void btnFour4444ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnFour4444.getText();

textField7.setText(Enternumber);

}

private void btnFive5555ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnFive5555.getText();

textField7.setText(Enternumber);

}

private void btnSix6666ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnSix6666.getText();

textField7.setText(Enternumber);

}

private void btnSeven7777ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnSeven7777.getText();

textField7.setText(Enternumber);

}

private void btnEight8888ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnEight8888.getText();

textField7.setText(Enternumber);

}

private void btnNine9999ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnNine9999.getText();

textField7.setText(Enternumber);

}

private void btnDot3ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText();

if(Enternumber.indexOf('.')<0)

Enternumber = textField7.getText()+btnPoint.getText();

else

Enternumber = textField7.getText();

textField7.setText(Enternumber);

}

private void btnZero0000ActionPerformed(java.awt.event.ActionEvent evt) {

String Enternumber = textField7.getText()+btnZero0000.getText();

textField7.setText(Enternumber);

}

private void btnConvert3ActionPerformed(java.awt.event.ActionEvent evt) {

len = Double.parseDouble(textField7.getText());

if(i7.equals("Kilometre") && i8.equals("Metre"))

length = len\*1000;

else if(i7.equals("Kilometre") && i8.equals("Mile"))

length = len\*0.621371192;

else if(i7.equals("Kilometre") && i8.equals("Yard"))

length = len\*1093.6133;

else if(i7.equals("Kilometre") && i8.equals("Foot"))

length = len\*3280.8399;

else if(i7.equals("Kilometre") && i8.equals("Inch"))

length = len\*39370.0787;

else if(i7.equals("Kilometre") && i8.equals("Kilometre"))

length = len;

else if(i7.equals("Metre") && i8.equals("Kilometre"))

length = len\*0.001;

else if(i7.equals("Metre") && i8.equals("Mile"))

length = len\*0.000621371192;

else if(i7.equals("Metre") && i8.equals("Yard"))

length = len\*1.0936133;

else if(i7.equals("Metre") && i8.equals("Foot"))

length = len\*3.2808399;

else if(i7.equals("Metre") && i8.equals("Inch"))

length = len\*39.3700787;

else if(i7.equals("Metre") && i8.equals("Metre"))

length = len;

else if(i7.equals("Yard") && i8.equals("Metre"))

length = len\*0.9144;

else if(i7.equals("Yard") && i8.equals("Kilometre"))

length = len\*0.0009144;

else if(i7.equals("Yard") && i8.equals("Foot"))

length = len\*3;

else if(i7.equals("Yard") && i8.equals("Inch"))

length = len\*36;

else if(i7.equals("Yard") && i8.equals("Mile"))

length = len\*0.000568181818;

else if(i7.equals("Yard") && i8.equals("Yard"))

length = len;

else if(i7.equals("Mile") && i8.equals("Yard"))

length = len\*1760;

else if(i7.equals("Mile") && i8.equals("Foot"))

length = len\*5280;

else if(i7.equals("Mile") && i8.equals("Inch"))

length = len\*63360;

else if(i7.equals("Mile") && i8.equals("Kilometre"))

length = len\*1.609344;

else if(i7.equals("Mile") && i8.equals("Metre"))

length = len\*1609.344;

else if(i7.equals("Mile") && i8.equals("Mile"))

length = len;

else if(i7.equals("Foot") && i8.equals("Mile"))

length = len\*0.000189393939;

else if(i7.equals("Foot") && i8.equals("Kilometre"))

length = len\*0.0003048;

else if(i7.equals("Foot") && i8.equals("Metre"))

length = len\*0.3048;

else if(i7.equals("Foot") && i8.equals("Yard"))

length = len/3;

else if(i7.equals("Foot") && i8.equals("Inch"))

length = len\*12;

else if(i7.equals("Foot") && i8.equals("Foot"))

length = len;

else if(i7.equals("Inch") && i8.equals("Foot"))

length = len/12;

else if(i7.equals("Inch") && i8.equals("Kilometre"))

length = len/39370.0708;

else if(i7.equals("Inch") && i8.equals("Metre"))

length = len/39.3700787;

else if(i7.equals("Inch") && i8.equals("Mile"))

length = len/63360;

else if(i7.equals("Inch") && i8.equals("Yard"))

length = len/36;

else if(i7.equals("Inch") && i8.equals("Inch"))

length = len;

textField8.setText(length+"");

}

private void btnAC3ActionPerformed(java.awt.event.ActionEvent evt) {

textField7.setText("0");

textField8.setText("");

}

private void btnBackspace4ActionPerformed(java.awt.event.ActionEvent evt) {

String s;

if(textField7.getText().length()>0){

StringBuilder st = new StringBuilder(textField7.getText());

st.deleteCharAt(textField7.getText().length()-1);

s = st.toString();

textField7.setText(s);

}

}

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

txtDisplay.setText("2.71828183");

}

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

txtDisplay.setText("3.14159265");

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText(Math.sqrt(firstnum)+"");

}

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

firstnum = Double.parseDouble(txtDisplay.getText());

txtDisplay.setText(Math.cbrt(firstnum)+"");

}

public static void main(String args[]) {

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(JavaCalculator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

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

public void run() {

new JavaCalculator().setVisible(true);

}

});

}

private javax.swing.JButton btnAC;

private javax.swing.JButton btnAC1;

private javax.swing.JButton btnAC2;

private javax.swing.JButton btnAC3;

private javax.swing.JButton btnBackspace;

private javax.swing.JButton btnBackspace1;

private javax.swing.JButton btnBackspace2;

private javax.swing.JButton btnBackspace3;

private javax.swing.JButton btnBackspace4;

private javax.swing.JButton btnCbrt;

private javax.swing.JButton btnClear;

private javax.swing.JButton btnConvert;

private javax.swing.JButton btnConvert1;

private javax.swing.JButton btnConvert2;

private javax.swing.JButton btnConvert3;

private javax.swing.JButton btnCos;

private javax.swing.JButton btnDivision;

private javax.swing.JButton btnDot;

private javax.swing.JButton btnDot1;

private javax.swing.JButton btnDot2;

private javax.swing.JButton btnDot3;

private javax.swing.JButton btnE;

private javax.swing.JButton btnEight;

private javax.swing.JButton btnEight8;

private javax.swing.JButton btnEight88;

private javax.swing.JButton btnEight888;

private javax.swing.JButton btnEight8888;

private javax.swing.JButton btnEqual;

private javax.swing.JButton btnFact;

private javax.swing.JButton btnFive;

private javax.swing.JButton btnFive5;

private javax.swing.JButton btnFive55;

private javax.swing.JButton btnFive555;

private javax.swing.JButton btnFive5555;

private javax.swing.JButton btnFour;

private javax.swing.JButton btnFour4;

private javax.swing.JButton btnFour44;

private javax.swing.JButton btnFour444;

private javax.swing.JButton btnFour4444;

private javax.swing.JButton btnLog;

private javax.swing.JButton btnMultiply;

private javax.swing.JButton btnNSquare;

private javax.swing.JButton btnNine;

private javax.swing.JButton btnNine9;

private javax.swing.JButton btnNine99;

private javax.swing.JButton btnNine999;

private javax.swing.JButton btnNine9999;

private javax.swing.JButton btnOne;

private javax.swing.JButton btnOne1;

private javax.swing.JButton btnOne11;

private javax.swing.JButton btnOne111;

private javax.swing.JButton btnOne1111;

private javax.swing.JButton btnPercent;

private javax.swing.JButton btnPi;

private javax.swing.JButton btnPlus;

private javax.swing.JButton btnPlusMinus;

private javax.swing.JButton btnPoint;

private javax.swing.JButton btnSeven;

private javax.swing.JButton btnSeven7;

private javax.swing.JButton btnSeven77;

private javax.swing.JButton btnSeven777;

private javax.swing.JButton btnSeven7777;

private javax.swing.JButton btnSin;

private javax.swing.JButton btnSix;

private javax.swing.JButton btnSix6;

private javax.swing.JButton btnSix66;

private javax.swing.JButton btnSix666;

private javax.swing.JButton btnSix6666;

private javax.swing.JButton btnSqrt;

private javax.swing.JButton btnSubtract;

private javax.swing.JButton btnTan;

private javax.swing.JButton btnThree;

private javax.swing.JButton btnThree3;

private javax.swing.JButton btnThree33;

private javax.swing.JButton btnThree333;

private javax.swing.JButton btnThree3333;

private javax.swing.JButton btnTwo;

private javax.swing.JButton btnTwo2;

private javax.swing.JButton btnTwo22;

private javax.swing.JButton btnTwo222;

private javax.swing.JButton btnTwo2222;

private javax.swing.JButton btnZero;

private javax.swing.JButton btnZero0;

private javax.swing.JButton btnZero00;

private javax.swing.JButton btnZero000;

private javax.swing.JButton btnZero0000;

private javax.swing.JComboBox<String> item1;

private javax.swing.JComboBox<String> item2;

private javax.swing.JComboBox<String> item3;

private javax.swing.JComboBox<String> item4;

private javax.swing.JComboBox<String> item5;

private javax.swing.JComboBox<String> item6;

private javax.swing.JComboBox<String> item7;

private javax.swing.JComboBox<String> item8;

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 jButton2;

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.JComboBox<String> jComboBox1;

private javax.swing.JComboBox<String> jComboBox2;

private javax.swing.JComboBox<String> jComboBox3;

private javax.swing.JComboBox<String> jComboBox4;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JList<String> jList1;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

private javax.swing.JPanel jPanel4;

private javax.swing.JPanel jPanel5;

private javax.swing.JPanel jPanel6;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JScrollBar jScrollBar1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JSpinner jSpinner1;

private javax.swing.JTabbedPane jTabbedPane1;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

private javax.swing.JTextField textField1;

private javax.swing.JTextField textField2;

private javax.swing.JTextField textField3;

private javax.swing.JTextField textField4;

private javax.swing.JTextField textField5;

private javax.swing.JTextField textField6;

private javax.swing.JTextField textField7;

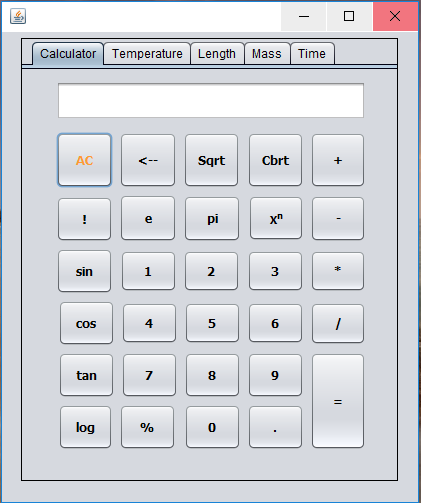
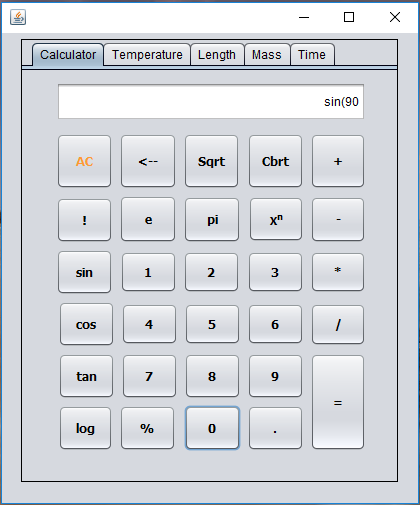
private javax.swing.JTextField textField8;

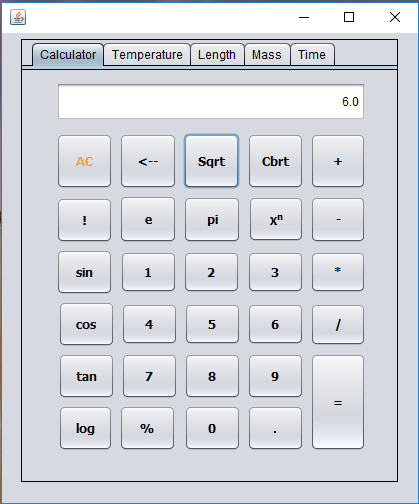
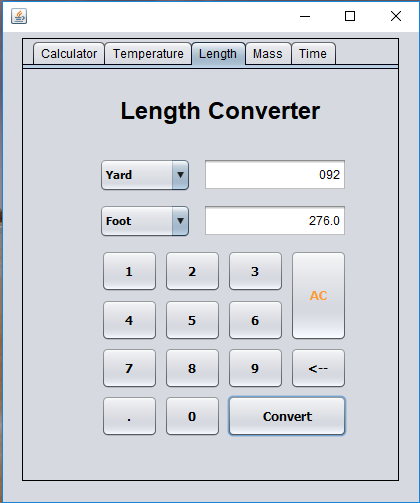
private javax.swing.JTextField txtDisplay;

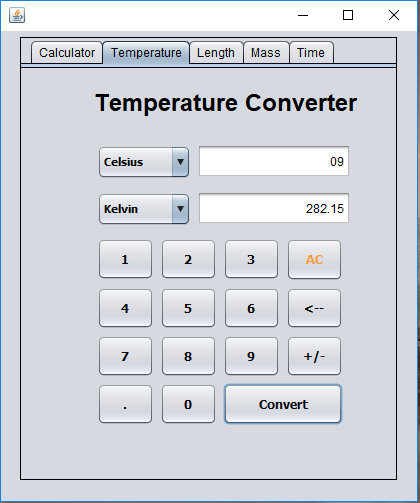
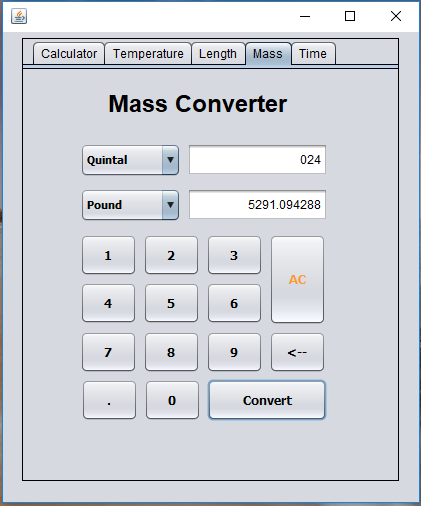
}

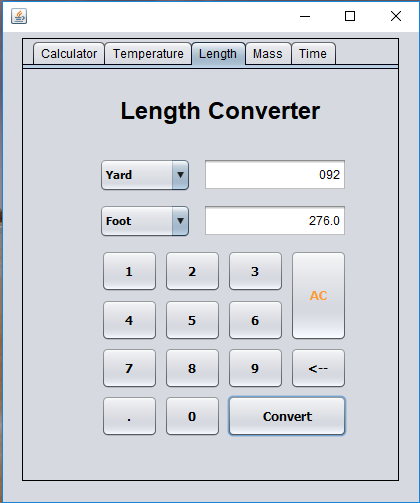
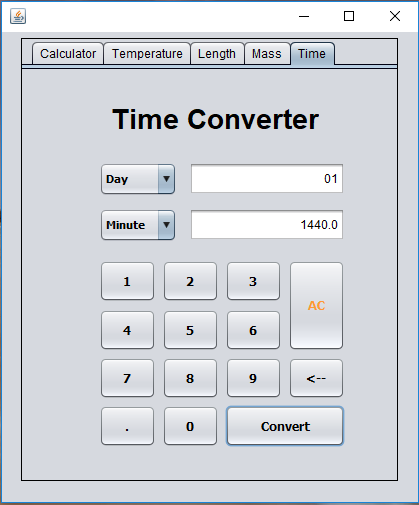
1. **TESTING**

Testing is a major control measure used during software development. Its basic function is to detect errors in the softwareTesting is a control measure used during software. During requirements analysis and design the outputs is a document that is usually textual and no executable. After the the coding phase, computer programs are available that can be executed for testing purpose. This implies that not only , has to uncover errors introduced during coding but also errors introduced during previous phase. Thus the goal of testing is to uncover the requirements, design and coding errors in the programs so that after the outputs of my project are as follows:-

1. **CONCLUSION**

I have successfully completed my project on ‘**Calculator + Unit Converter’**. I have included many features like backspace button, factorial button, Xn button, square-root button, cube-root button, trigonometric buttons in Calculator Panel and much more buttons may be include depending on requirement. The result is always in decimal and it is flexible with very large and small result because it shows result in exponent of 10 for large and small result.

I have included many choices in Unit Converter for flexibility of conversion of one unit into another.

1. **BIBLIOGRAPHY**

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