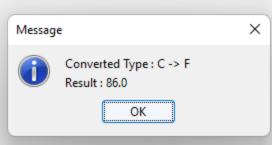
```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <form xmlns="http://www.intellij.com/uidesigner/form/" version="1" bind-to-class="TemperatureConverterGUI">
     <grid id="27dc6" binding="panelMain" layout-manager="GridLayoutManager" row-count="5" column-count="3" same-</pre>
   size-horizontally="false" same-size-vertically="false" hgap="-1" vgap="-1">
       <margin top="20" left="20" bottom="20" right="20"/>
 4
 5
       <constraints>
         <xy x="20" y="20" width="553" height="400"/>
 6
       </constraints>
       cproperties/>
 8
       <border type="none"/>
10
       <children>
11
         <vspacer id="e0f26">
12
           <constraints>
             <grid row="0" column="0" row-span="1" col-span="3" vsize-policy="6" hsize-policy="1" anchor="0" fill</pre>
13
   ="2" indent="0" use-parent-layout="false"/>
           </constraints>
14
15
         </vspacer>
16
         <vspacer id="addfa">
17
           <constraints>
18
             <grid row="3" column="0" row-span="1" col-span="3" vsize-policy="6" hsize-policy="1" anchor="0" fill</pre>
   ="2" indent="0" use-parent-layout="false"/>
19
           </constraints>
20
         </vspacer>
         <component id="7aba8" class="javax.swing.JButton" binding="ButtonConvertTemperature">
21
22
           <constraints>
             <grid row="4" column="0" row-span="1" col-span="3" vsize-policy="0" hsize-policy="3" anchor="0" fill</pre>
23
   ="1" indent="0" use-parent-layout="false"/>
24
           </constraints>
25
           cproperties>
26
             <font size="15"/>
27
             <text value="Convert Temperature"/>
28
           </properties>
29
         </component>
30
         <component id="17fcc" class="javax.swing.JComboBox" binding="ComboBoxTemperatureConvertType">
31
           <constraints>
32
             <grid row="2" column="2" row-span="1" col-span="1" vsize-policy="0" hsize-policy="2" anchor="8" fill</pre>
```

```
32 ="1" indent="0" use-parent-layout="false"/>
33
           </constraints>
34
           cproperties>
35
             <font size="15"/>
36
           </component>
37
38
         <component id="3b6e3" class="javax.swing.JLabel">
39
           <constraints>
40
             <grid row="2" column="0" row-span="1" col-span="2" vsize-policy="0" hsize-policy="0" anchor="8" fill</pre>
   ="0" indent="0" use-parent-layout="false"/>
41
           </constraints>
42
           properties>
43
             <font size="15"/>
             <text value="Which temperature do we convert ?"/>
44
45
           </properties>
         </component>
46
47
         <component id="ea3e0" class="javax.swing.JLabel">
48
           <constraints>
             <grid row="1" column="0" row-span="1" col-span="1" vsize-policy="0" hsize-policy="0" anchor="8" fill</pre>
   ="0" indent="0" use-parent-layout="false"/>
           </constraints>
50
51
           cproperties>
52
             <font size="15"/>
53
             <text value="Temperature"/>
54
           </properties>
55
         </component>
56
         <component id="9e378" class="javax.swing.JTextField" binding="TextFieldTemperature">
57
           <constraints>
             <grid row="1" column="2" row-span="1" col-span="1" vsize-policy="0" hsize-policy="6" anchor="8" fill</pre>
58
   ="1" indent="0" use-parent-layout="false">
59
               ferred-size width="150" height="-1"/>
60
             </arid>
           </constraints>
61
62
           cproperties>
             <font size="15"/>
63
           </properties>
64
```

```
</component>
</children>
65
66
     </grid>
67
68 </form>
69
```

```
1 import javax.swing.*;
2 import java.awt.*;
3 import java.awt.event.ActionEvent;
4 import java.awt.event.ActionListener;
6 public class TemperatureConverterGUI extends JFrame{
 7
       private JPanel panelMain;
       private JButton ButtonConvertTemperature;
8
       private JComboBox ComboBoxTemperatureConvertType;
9
10
       private JTextField TextFieldTemperature;
11
12
       public TemperatureConverterGUI() {
13
           this.add(panelMain);
14
           this.setSize(500,500);
15
           this.setTitle("Temperature Converter Homework");
16
           this.setDefaultCloseOperation(EXIT_ON_CLOSE);
17
18
           ButtonConvertTemperature.addActionListener(e -> {
19
               ConvertTemperature();
20
           });
21
22
           String[] convertTypes = {"C -> F" , "F -> C"};
23
24
           ComboBoxModel convertTypeModel = new DefaultComboBoxModel(convertTypes);
25
           ComboBoxTemperatureConvertType.setModel(convertTypeModel);
26
       }
27
28
       public void ConvertTemperature(){
29
           double temperature = Double.parseDouble(TextFieldTemperature.getText());
30
           String convertType = ComboBoxTemperatureConvertType.getSelectedItem().toString();
31
32
           switch (convertType){
33
               case("C -> F"):
34
                   temperature = temperature *(1.8) + 32;
35
                   break;
36
               case("F -> C"):
```

```
temperature = ((temperature - 32) * 5) / 9;
37
38
                   break;
39
           }
40
41
           String result = "Converted Type : " + convertType + "\n" + "Result : " + temperature;
42
43
           JOptionPane.showMessageDialog(panelMain,result);
44
45
46
       public static void main(String[] args){
47
48
           //Set Windows's Component To Your Project
49
           try {
50
               UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
51
           } catch (ClassNotFoundException e) {
52
               e.printStackTrace();
53
           } catch (InstantiationException e) {
54
               e.printStackTrace();
55
           } catch (IllegalAccessException e) {
56
               e.printStackTrace();
57
           } catch (UnsupportedLookAndFeelException e) {
58
               e.printStackTrace();
59
60
61
62
           //Set UI Thread to another thread
63
           SwingUtilities.invokeLater(() -> {
64
               TemperatureConverterGUI qui = new TemperatureConverterGUI();
65
               gui.setVisible(true);
66
           });
67
68
       }
69 }
70
71
```



Convert Temperature