

```

1 import javax.swing.*;
2 import java.awt.*;
3 import java.awt.event.*;
4
5 public class JFrameWithManyComponents extends JFrame
6 implements ActionListener {
7     final int FRAME_WIDTH = 350;
8     final int FRAME_HEIGHT = 150;
9     JLabel namePrompt;
10    JLabel heading1;
11    JLabel conversion;
12    JTextField nameField;
13    JButton button;
14
15    public JFrameWithManyComponents() {
16        super("Temperature Converter"); //must be first statement
17
18        namePrompt = new JLabel("Enter Farenheit");
19        heading1 = new JLabel("Enter Degrees F* to recieve Degrees C*");
20        nameField = new JTextField(12);
21        button = new JButton("Click to continue");
22        conversion = new JLabel("");
23
24
25        setSize(FRAME_WIDTH, FRAME_HEIGHT);
26        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
27        setLocationRelativeTo(null);
28
29        button.setToolTipText("Begin Conversion");
30        heading1.setFont(new Font("Arial", Font.BOLD, 16));
31
32        setLayout(new FlowLayout());
33        add(heading1);
34        add(namePrompt);
35        add(nameField);
36        add(button);
37        add(conversion);
38        button.addActionListener(this);
39    }
40
41    @Override
42    public void actionPerformed(ActionEvent e) {
43        String name = nameField.getText();
44        double far = Double.parseDouble(name);
45        conversion.setText(String.format("Degrees Celsius %.2f",
46            ((far - 32) * 5/9)));
47    }
48 }

```

```

1
2 public class nine {
3
4     public static void main(String[] args) {
5         JFrameWithManyComponents a = new JFrameWithManyComponents();
6         |
7         a.setVisible(true);
8
9     }
10
11 }
12

```

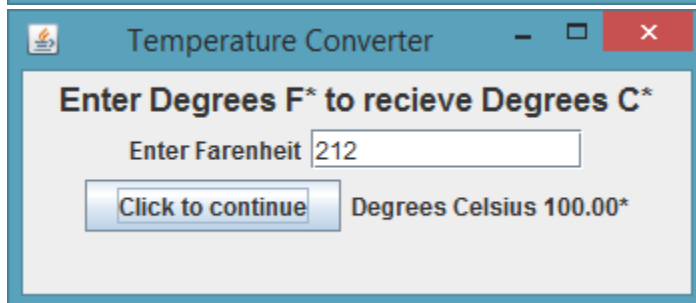


Temperature Converter

Enter Degrees F* to recieve Degrees C*

Enter Farenheit

Click to continue

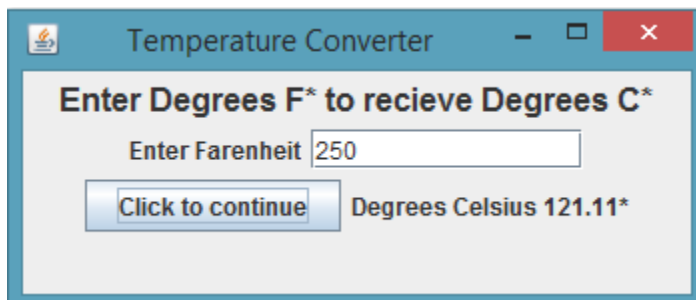


Temperature Converter

Enter Degrees F* to recieve Degrees C*

Enter Farenheit

Click to continue Degrees Celsius 100.00*



Temperature Converter

Enter Degrees F* to recieve Degrees C*

Enter Farenheit

Click to continue Degrees Celsius 121.11*