```java
import javax.swing.*;
import javax.swing.border.EmptyBorder;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.math.BigDecimal;
import java.math.RoundingMode;

public class ConversorTemperatura {

    private JButton btnConverter;
    private JLabel lblFanhereit;
    private JFrame frmJanela;
    private JTextField txtFanhereit;
    private JLabel lblCelsius;

    public ConversorTemperatura() {
        // a construção da minha interface
        frmJanela = new JFrame();
        //frmJanela.setSize(250, 300);
        frmJanela.setTitle("Conversor de Temperatura");
        frmJanela.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        frmJanela.setLocationRelativeTo(null);

        JPanel quadro = new JPanel();
        //quadro.setBorder(new EmptyBorder());
        quadro.setBorder(BorderFactory.createEmptyBorder(10, 10, 10,
10));
        frmJanela.setContentPane(quadro);

        //frmJanela.setLayout(new FlowLayout());
        GridLayout leiaute = new GridLayout(2, 2);
        leiaute.setHgap(10);
        leiaute.setVgap(10);
        frmJanela.setLayout(leiaute);

        txtFanhereit = new JTextField();
        txtFanhereit.setColumns(5);
        txtFanhereit.setLayout(new GridLayout(2, 2));
        txtFanhereit.add(new JLabel("X"));
        frmJanela.add(txtFanhereit);

        lblFanhereit = new JLabel();
        lblFanhereit.setText("Fanhereit");
        frmJanela.add(lblFanhereit);

        btnConverter = new JButton();
        btnConverter.setText("Converter");

        btnConverter.addActionListener((actionEvent) -> {
            try {
                double f = Double.parseDouble(txtFanhereit.getText());
                double c = (f - 32) * 5.0 / 9.0;
                c = new BigDecimal(c).setScale(2,
RoundingMode.HALF_UP).doubleValue();
                lblCelsius.setText(String.valueOf(c) + " C");
```

```java
            } catch (NumberFormatException e) {
                JOptionPane.showMessageDialog(null, "Verifique o valor
digitado!", "Ops!", JOptionPane.ERROR_MESSAGE);
            }
        });

        frmJanela.add(btnConverter);

        lblCelsius = new JLabel();
        lblCelsius.setText("Celsius");
        frmJanela.add(lblCelsius);

        JPopupMenu menu = new JPopupMenu();
        JMenuItem item = new JMenuItem();
        item.setText("Opção A");
        menu.add(item);
        lblCelsius.setComponentPopupMenu(menu);
    }

    public void exibir() {
        frmJanela.pack();
        frmJanela.setVisible(true);
    }

    public static void main(String[] args) throws
UnsupportedLookAndFeelException, ClassNotFoundException,
InstantiationException, IllegalAccessException {


UIManager.setLookAndFeel("javax.swing.plaf.nimbus.NimbusLookAndFeel");

//       for (UIManager.LookAndFeelInfo lafi :
UIManager.getInstalledLookAndFeels()) {
//           System.out.println(lafi.getName() + ": " +
lafi.getClassName());
//       }

        ConversorTemperatura ct = new ConversorTemperatura();
        ct.exibir();
    }

}
```