

Reflection:

To start I created an application window in eclipse which gave me a start as you see below

```
public class MetricConversion {

    private JFrame bG;
    private JTextField txt1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    MetricConversion window = new MetricConversion();
                    window.bG.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the application.
     * @wbp.parser.entryPoint
     */
    public MetricConversion() {
        initialize();
    }
}
```

I then changed variables around to fit my needs/ease of use

Afterwards I created the text fields and combo box on a frame I had created and then customized their internals to fit the program specifications.

```
private void initialize() {
    bG = new JFrame();
    bG.setBounds(100, 100, 262, 226);
    bG.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    bG.getContentPane().setLayout(null);

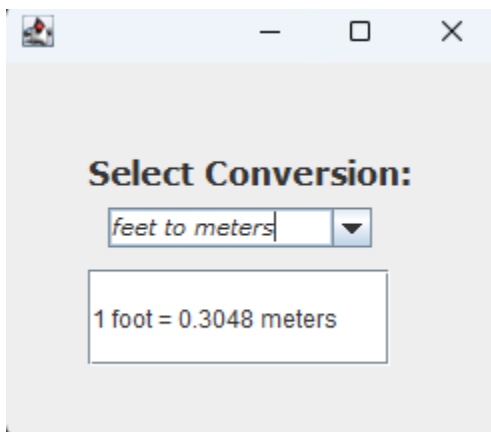
    JLabel lbl2 = new JLabel("Select Conversion:");
    lbl2.setFont(new Font("Verdana", Font.BOLD, 16));
    lbl2.setBounds(41, 47, 163, 14);
    bG.getContentPane().add(lbl2);

    JComboBox pN1 = new JComboBox();
    pN1.setModel(new DefaultComboBoxModel(new String[] { "feet to meters", "inch to cm", "gallon to liter", "pound to kg" }));
    pN1.setFont(new Font("Verdana", Font.ITALIC, 11));
    pN1.setEditable(true);
    pN1.setBounds(51, 72, 132, 20);
    bG.getContentPane().add(pN1);

    txt1 = new JTextField();
    txt1.setText("1 foot = 0.3048 meters");
    txt1.setBounds(41, 103, 151, 48);
    bG.getContentPane().add(txt1);
    txt1.setColumns(10);
}
```

Lastly I create an action so that on the user click information will be displayed to my display text field.

```
pN1.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
  
        String txt2 = "";  
  
        if(pN1.getSelectedItem().equals("feet to meters"))  
        {  
            txt2 = "1 foot = 0.3048 meters";  
        }  
        else if(pN1.getSelectedItem().equals("inch to cm"))  
        {  
            txt2 = "1 inch = 2.54 cm";  
        }  
        else if(pN1.getSelectedItem().equals("gallon to liter"))  
        {  
            txt2 = "1 gallon = 4.5461 liters";  
        }  
        else if(pN1.getSelectedItem().equals("pound to kg"))  
        {  
            txt2 = "1 pound = 0.4536 kg";  
        }  
  
        txt1.setText  
        (txt2);  
  
    }  
});
```



And here is the finished design