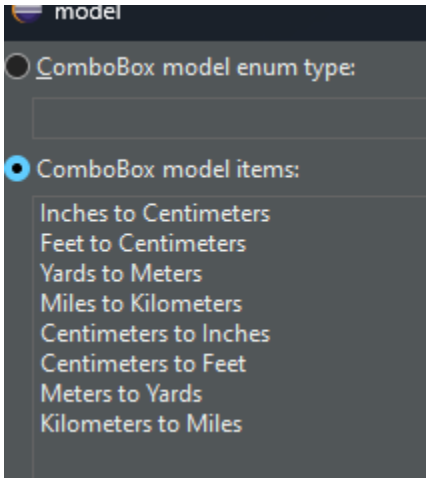
Credit
2110
Assignment
E2 MetricConversion

How has your program changed from planning to coding to now? Please explain?

Reusing the code from my timeconverter skill builder



Changing combo box values

Setting up if statements to read combo box

```
E2MetricConversion.java
85          public void actionPerformed(ActionEvent e)
86          {
87              if (selection.getSelectedItem().equals("Inches to Centimeters")) //to change what the unit input text box says to input, and to reset output box'
88              {
89                  unitInput.setText("Input inches");
90                  output.setText("Waiting For Convert.");
91              }
92              else if (selection.getSelectedItem().equals("Feet to Centimeters"))  //to change what the unit input text box says to input, and to reset output
93              {
94                  unitInput.setText("Input feet");
95                  output.setText("Waiting For Convert.");
96              }
97              else if (selection.getSelectedItem().equals("Yards to Meters")) //to change what the unit input text box says to input, and to reset output box's
98              {
99                  unitInput.setText("Input yards");
100                 output.setText("Waiting For Convert.");
101             }
102             else if (selection.getSelectedItem().equals("Miles to Kilometers")) //to change what the unit input text box says to input, and to reset output b
103             {
104                 unitInput.setText("Input miles");
105                 output.setText("Waiting For Convert.");
106             }
107             else if (selection.getSelectedItem().equals("Centimeters to Inches")) //to change what the unit input text box says to input, and to reset output
108             {
109                 unitInput.setText("Input centimeters");
110                 output.setText("Waiting For Convert.");
111             }
112             else if (selection.getSelectedItem().equals("Centimeters to Feet")) //to change what the unit input text box says to input, and to reset output b
113             {
114                 unitInput.setText("Input centimeters");
115                 output.setText("Waiting For Convert.");
116             }
117             else if (selection.getSelectedItem().equals("Meters to Yards")) //to change what the unit input text box says to input, and to reset output box's
118             {
119                 unitInput.setText("Input meters");
120                 output.setText("Waiting For Convert.");
121             }
```

Copy and pasted the previous code to read the combo box, and now formatting it to do the math

```
        JButton pressMe = new JButton("Convert");
        pressMe.addActionListener(new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {

                if (selection.getSelectedItem().equals("Inches to Centimeters"))
                {
                    String txtnumb = unitInput.getText();
                    double numb = Double.parseDouble(txtnumb);
                    output.setText(String.valueOf(((numb / 24) * 100.0) / 100.0+ " Centimeters."));
                }
                else if (selection.getSelectedItem().equals("Feet to Centimeters"))
                {
                    unitInput.setText("Input feet");
                    output.setText("Waiting For Convert.");
                }
                else if (selection.getSelectedItem().equals("Yards to Meters"))
                {
                    unitInput.setText("Input yards");
                    output.setText("Waiting For Convert.");
                }
                else if (selection.getSelectedItem().equals("Miles to Kilometers"))
                {
                    unitInput.setText("Input miles");
                    output.setText("Waiting For Convert.");
                }
                else if (selection.getSelectedItem().equals("Centimeters to Inches"))
                {
                    unitInput.setText("Input centimeters");
                    output.setText("Waiting For Convert.");
                }
                else if (selection.getSelectedItem().equals("Centimeters to Feet"))
                {
```

First math finalized

```
if (selection.getSelectedItem().equals("Inches to Centimeters")) //reads combo box
{
    String txtnumb = unitInput.getText(); // accepts user input as a string
    double numb = Double.parseDouble(txtnumb); //converts user input into a double so we can do math with it and get a decimal
    output.setText(dc.format((numb  * 2.54))+ " Centimeters."); // converts centimeters to inches and then  outputs the user input rounded to the
}
```

Will be using the same stuff for the rest of the ifs but with different operations numbers and units

Finalized code, Only the important stuff

```
import javax.swing.SwingConstants;

public class E2MetricConversion {

    private JFrame frame;
    private JTextField En;
    private JTextField unitInput;

    DecimalFormat dc = new DecimalFormat("0.00"); // to convert decimals to the nearest hundredth

    /**
```

```
        public void actionPerformed(ActionEvent e)
        {
            if (selection.getSelectedItem().equals("Inches to Centimeters")) //to change what the unit input text box says to input, and to reset output box'
            {                                                                //the rest of the code until line 129, is the exact same with different units be
                unitInput.setText("Input inches");                          // theres no point repeating the comments like 16 times
                output.setText("Waiting For Convert.");
            }
            else if (selection.getSelectedItem().equals("Feet to Centimeters"))
            {
                unitInput.setText("Input feet");
                output.setText("Waiting For Convert.");
            }
            else if (selection.getSelectedItem().equals("Yards to Meters"))
            {
                unitInput.setText("Input yards");
                output.setText("Waiting For Convert.");
            }
            else if (selection.getSelectedItem().equals("Miles to Kilometers"))
            {
                unitInput.setText("Input miles");
                output.setText("Waiting For Convert.");
            }
            else if (selection.getSelectedItem().equals("Centimeters to Inches"))
            {
                unitInput.setText("Input centimeters");
                output.setText("Waiting For Convert.");
            }
            else if (selection.getSelectedItem().equals("Centimeters to Feet"))
            {
                unitInput.setText("Input centimeters");
                output.setText("Waiting For Convert.");
            }
            else if (selection.getSelectedItem().equals("Meters to Yards"))
            {
                unitInput.setText("Input meters");
                output.setText("Waiting For Convert.");
            }
            else if (selection.getSelectedItem().equals("Kilometers to Miles"))
            {
                unitInput.setText("Input kilometers");
                output.setText("Waiting For Convert.");
            }
```

```
    {
        public void actionPerformed(ActionEvent e)
        {

            if (selection.getSelectedItem().equals("Inches to Centimeters")) //reads combo box
            {
                String txtnumb = unitInput.getText(); // accepts user input as a string
                double numb = Double.parseDouble(txtnumb); //converts user input into a double so we can do math with it and get a decimal
                output.setText(dc.format((numb * 2.54))+ " Centimeters.");  // converts centimeters to inches and then  outputs the user input rounded to the
            }
            else if (selection.getSelectedItem().equals("Feet to Centimeters")) //the rest of the code until line 197, is the exact same with different units
            {                                                                   //there is no point in repeating the comments 30 times
                String txtnumb = unitInput.getText();
                double numb = Double.parseDouble(txtnumb);
                output.setText(dc.format((numb * 30))+ " Centimeters.");
            }
            else if (selection.getSelectedItem().equals("Yards to Meters"))
            {
                String txtnumb = unitInput.getText();
                double numb = Double.parseDouble(txtnumb);
                output.setText(dc.format((numb * 0.91))+ " Meters.");
            }
            else if (selection.getSelectedItem().equals("Miles to Kilometers"))
            {
                String txtnumb = unitInput.getText();
                double numb = Double.parseDouble(txtnumb);
                output.setText(dc.format((numb * 1.6))+ " Kilometers.");
            }
            else if (selection.getSelectedItem().equals("Centimeters to Inches"))
            {
                String txtnumb = unitInput.getText();
                double numb = Double.parseDouble(txtnumb);
                output.setText(dc.format((numb / 2.54))+ " Inches.");
            }
            else if (selection.getSelectedItem().equals("Centimeters to Feet"))
            {
                String txtnumb = unitInput.getText();
                double numb = Double.parseDouble(txtnumb);
                output.setText(dc.format((numb / 30))+ " Feet.");
            }
            else if (selection.getSelectedItem().equals("Meters to Yards"))
            {
                String txtnumb = unitInput.getText();
                double numb = Double.parseDouble(txtnumb);
                output.setText(dc.format((numb / 0.91))+ " Yards.");
            }
            else if (selection.getSelectedItem().equals("Kilometers to Miles"))
            {
                String txtnumb = unitInput.getText();
                double numb = Double.parseDouble(txtnumb);
                output.setText(dc.format((numb / 1.6))+ " Miles.");
```