

```

public class TemperatureConverter {
    public Decimal inputTemp { get; set; }
    public String scale { get; set; } // 'CtoF' or 'FtoC'
    public Decimal convertedTemp { get; set; }
    public String result { get; set; }

    public List<SelectOption> getScaleOptions() {
        List<SelectOption> options = new List<SelectOption>();
        options.add(new SelectOption('CtoF', 'Celsius to Fahrenheit'));
        options.add(new SelectOption('FtoC', 'Fahrenheit to Celsius'));
        return options;
    }

    public void convert() {
        if (scale == 'CtoF') {
            convertedTemp = (inputTemp * 9 / 5) + 32;
            result = inputTemp + ' °C = ' + convertedTemp + ' °F';
        } else if (scale == 'FtoC') {
            convertedTemp = (inputTemp - 32) * 5 / 9;
            result = inputTemp + ' °F = ' + convertedTemp + ' °C';
        } else {
            result = 'Invalid scale selected.';
        }
    }
}

```

```

<apex:page controller="TemperatureConverter">
  <h2>Temperature Converter</h2>
  <apex:form>
    <apex:pageBlock title="Convert Temperature">
      <apex:pageBlockSection columns="1">
        <apex:inputText value="{!inputTemp}" label="Enter Temperature"/>
        <apex:selectList value="{!scale}" size="1" label="Conversion Type">
          <apex:selectOptions value="{!scaleOptions}"/>
        </apex:selectList>
        <apex:commandButton value="Convert" action="{!convert}"
rerender="resultPanel"/>
      </apex:pageBlockSection>

      <apex:outputPanel id="resultPanel">
        <apex:outputText value="{!result}" style="font-weight:bold; color:green;"
rendered="{!NOT(ISNULL(result))}"/>
      </apex:outputPanel>
    </apex:pageBlock>
  </apex:form>
</apex:page>

```

```
TemperatureConverter tc = new TemperatureConverter();  
tc.inputTemp = 100; // Input temperature value  
tc.scale = 'CtoF'; // Use 'CtoF' for Celsius to Fahrenheit or 'FtoC' for Fahrenheit to  
Celsius  
tc.convert();  
  
System.debug(tc.result);
```