CSE 4500 – Platform Computing
Professor Lawrence Orijuela
Homework 3 (Due midnight Mar 9)

Instructions:
1. **Download this assignment as an editable word doc from Canvas.**
2. **This homework will involve coding in Visual Studio Code. Please create a folder called CSE4500Homework.**
3. **Write your name and student ID on this doc.**
4. **Watch the accompanying lecture video to complete the coding portion: (https://www.youtube.com/watch?v=F-x58tI46JU)**
5. **For the question-and-answer portion, write your answers in the spaces provided. Give yourself more space as needed.**
6. **Export this doc with your name and answers as a PDF and resubmit it to canvas.**
   a. **Use this as your title: CSE4500_YourName_HW#**
   b. **Example: CSE4500_BobSmith_HW#1**

Name: Hector Najera   Student ID #: 006868830   Points: /30

Coding Portion (15 points)

1. Inside your folder *CSE4500Homework*, create a new folder called *HW3CodingPortion*.
2. Open the folder *HW3CodingPortion* using Visual Studio Code.
3. Add this starting code:

```
<!DOCTYPE html>
<html>

<head>
  <title>Temperature Converter</title>
  <link rel="stylesheet" href="css/jquery.mobile-1.3.1.min.css">
  <script src="scripts/jquery-1.8.3.min.js">
  </script>
  <script src="scripts/chromeFileProtocolFix.js"></script>
  <script src="scripts/jquery.mobile-1.3.1.min.js">
  </script>
  <script type='text/javascript' src='scripts/temperatureConverter.js'>
  </script>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>

<body onload="setup()">
  <div data-role="page">
    <div style="padding: 20px;">
      <div data-role="fieldcontain">
        <input type="number" id="temperature" name="temperature">
        <label id="label">&deg; F</label>
      </div>
      <fieldset data-role="controlgroup">
        <legend>Convert to:</legend>
        <input type="radio" name="units" id="fahrenheit" value="fahrenheit"
        onclick="setUnits('C')">
        <label for="fahrenheit">Fahrenheit</label>
        <input type="radio" name="units" id="celsius" value="celsius"
        checked="checked" onclick="setUnits('F')">
        <label for="celsius">Celsius</label>
      </fieldset>
      <input type="button" onclick="convert()" value="Convert">
      <p id="answer"></p>
    </div>
  </div>
</body>

</html>
```
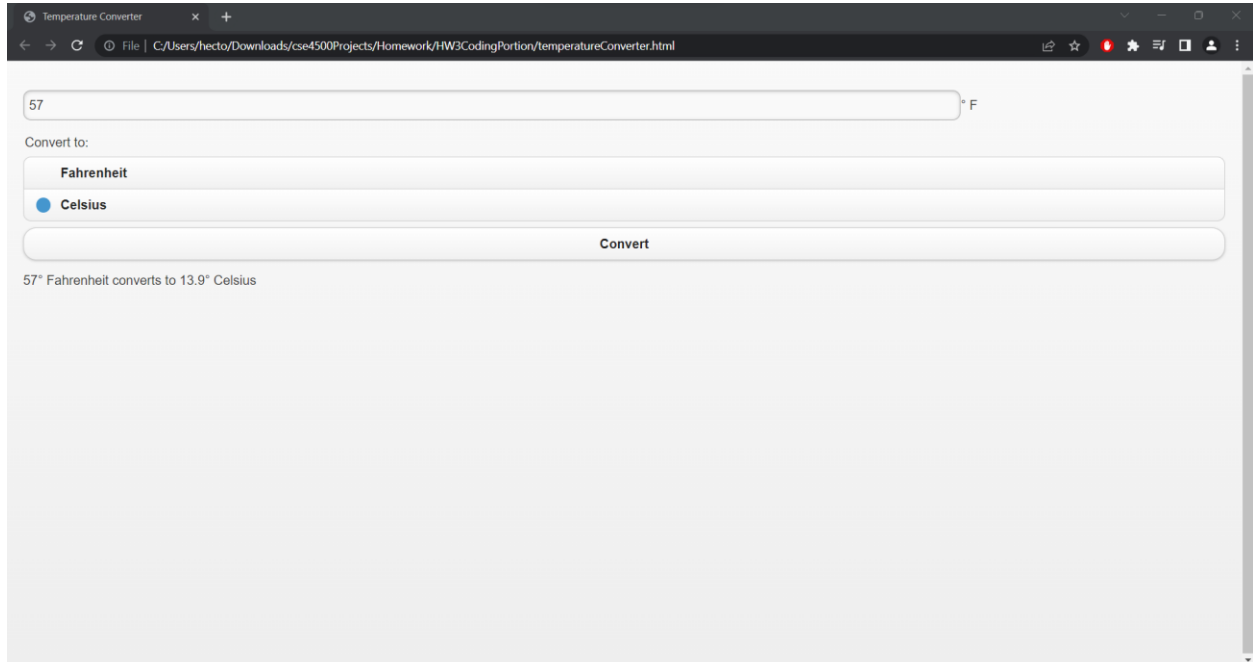
4. Follow the steps in the accompanying lecture video in order to finish *HW3CodingPortion:* (https://www.youtube.com/watch?v=F-x58tI46JU). You will modify the app to complete the following:

a. Add the jQueryMobile script.
b. Add the jQueryMobile Cascading Style Sheet.
c. Create a JavaScript file called 'temperatureConverter.js' and add the appropriate code from the video to it.

5. Copy-Paste the screenshot of your working web application here:

Question and Answer Portion (15 points) (Note: You may not be able to answer some of these questions until after you watch Chapter 4 Pt.2)

1. What is used to include a greater than (>) sign in our HTML5 document?
   - We type &gt to define the greater than symbol.

2. What is used to include a quotation mark in an HTML5 document?
   - We can use &quot or &#34.

3. What is the purpose of <fieldset> tag in an HTML5 document?
   - It groups related elements in a form.

4. What are the two comparison operators for not equal in JavaScript?

   - != and !==

5. What is the difference between == and === in JavaScript?

   - == will be true if a number and a string have the same value. Ex 10 == "10" is true.
   - === checks if its equal value and equal type. Ex 10 === "10" is false.