

## **GETTING STARTED**

This is an open book test that covers chapters 7 – 9. Use Microsoft Expression Web or another available HTML editor for this test. Visit the eLearning course site, click **Tests**, then click **Test 3** and download the ZIP file. Save the folder to your desktop. Complete the following projects and submit everything (files, folders, etc.) in a ZIP folder via eLearning by the end of class.

### ***PROJECT 1 [40 PTS]***

Please open the **Project-1** folder and view the **index.htm** file in the appropriate HTML editor. Complete the following instructions below:

1. In your text editor, open **index.htm** and **script.js**. Enter your name and today's date in the head section for both files. Save your changes for both files.
2. In the **script.js** file, inside the **function(){}**, just below where it says **//ADD CODE BELOW**, create a variable called **password** as shown below:

```
var password = document.querySelector('.password');
```

3. After the **password** variable, create a variable object called **helperText** as shown below:

```
var helperText = {  
    charLength: document.querySelector('.check-text .length'),  
    lowercase: document.querySelector('.check-text .lowercase'),  
    uppercase: document.querySelector('.check-text .uppercase'),  
    special: document.querySelector('.check-text .special')  
};
```

*NOTE: For the 4 lines that reference .check-text in the code above, please note there is a space between “.check-text” and the CSS value thereafter (.length, .lowercase, .uppercase or .special).*

4. After the **helperText** variable, create a variable object called **pattern** as shown below:

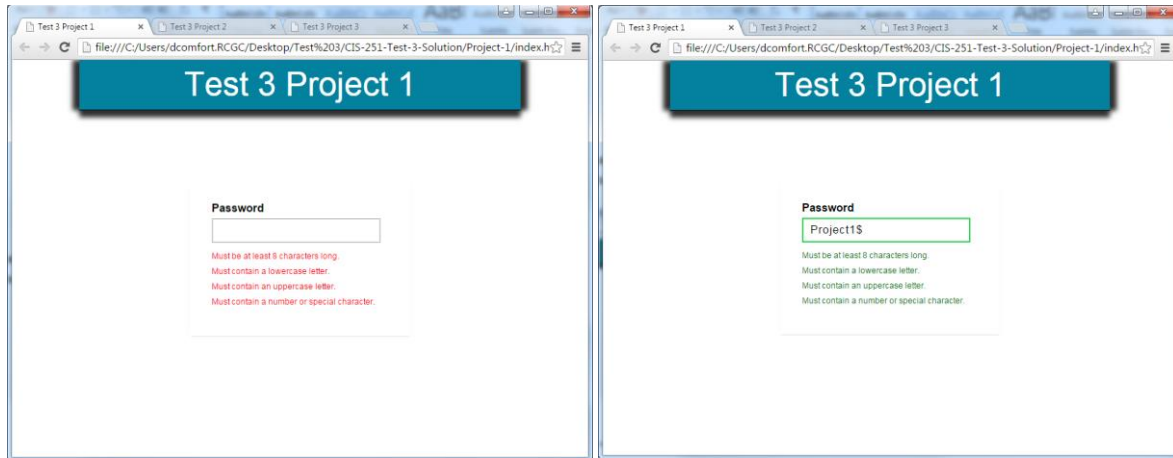
```
var pattern = {
    charLength: function() {
        if( password.value.length >= 8 ) {
            return true;
        }
    },
    lowercase: function() {
        var regex = /^(?=.*[a-z]).+$/; // Lowercase character pattern

        if( regex.test(password.value) ) {
            return true;
        }
    },
    uppercase: function() {
        var regex = /^(?=.*[A-Z]).+$/; // Uppercase character pattern

        if( regex.test(password.value) ) {
            return true;
        }
    },
    special: function() {
        var regex = /^(?=.*[0-9_\W]).+$/; // Special character or number pattern

        if( regex.test(password.value) ) {
            return true;
        }
    }
};
```

5. Save your work in **script.js** and then open **index.htm** in a browser. Type in the password “**Project1\$**”. The red text should turn green, along with the box trim (See Below).



## PROJECT 2 [60 PTS]

Please open the **Project-2** folder and view the **index.htm** file in the appropriate HTML editor. Complete the following instructions below:

1. In your text editor, open **index.htm** and **script.js**. Enter your name and today's date in the head section for both files. Save your changes for both files.
2. Setup the **script.js** file to use **strict** mode for JavaScript (i.e. – “use strict”).
3. In the **script.js** file, just below where it says **//ADD CODE BELOW**, create a function called **populateInfo** as shown below:

```
function populateInfo() {
  if (location.search) {
    var greeting = location.search;
    greeting = greeting.replace("+", " ");
    greeting = greeting.substring(greeting.lastIndexOf("=") + 1);
    document.getElementById("greetingtext").innerHTML = decodeURIComponent(greeting);
  }
}
```

4. After the **populateInfo** function, create an event listener as shown below:

```
if (window.addEventListener) {  
    window.addEventListener("load", populateInfo, false);  
} else if (window.attachEvent) {  
    window.attachEvent("onload", populateInfo);  
}
```

6. Save your work in **script.js** and then open **index.htm** in a browser. Type in the greeting text **"Hello World"** and click the **Preview** button. A preview page should then display with the greeting text provided.

