ASSIGNMENT 3

Series A

TASK 1:

1. Create a new project folder named **assignment03** (all in lowercase).
2. Open the new project folder in Visual Studio Code.
3. Following the guidance on the INFO Web Resources Style Guide page
   (https://www.mccinfo.net/webresources/xhtml_specs.htm) create a new HTML5-compliant HTML document
   named **index.html** (all lowercase).
   a. Your document must include opening comments as specified in the Style Guide. Failing to include the
      opening comments, or failing to correctly input the opening comments will result in a 10% penalty.

TASK 2:

1. Open **index.html**:
   a. Set the value of the `<title>` tag to **Assignment 3** (3 points)
   b. In the `<body>` of **index.html**, create an `<h1>` tag pair, which contains the value **Calculator**
      (2 points)
   c. After the closing `<h1>` tag, create appropriate markup to display the content shown in Figure 1, which
      can be seen below (10 points):

```
<h1>Calculator</h1>
<label for="num1">Number 1</label>
<br>
<input id="num1" name="num1" type="text" value="0"/>
<br>
<label for="num2">Number 2</label>
<br>
<input id="num2" name="num2" type="text" value="0"/>
<br>
<br>
<a id="action" href="#">Click Here to Calculate</a>

<div>The result of adding the numbers is: <span id="result-add"></span></div>
<div>The result of multiplying the numbers is: <span id="result-mult"></span></div>
```

Figure 1

Continued on the next page.

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TASK 3:

1. Download **starter.txt** from the **Assignment 3** drop box in Blackboard.
2. Figure 2 (right) shows the content of **starter.txt**
3. COPY the contents of **starter.txt** and PASTE the contents of **starter.txt** into an external JavaScript file linked to **index.html**
   a. NOTE: do not link directly to **starter.txt**
4. Use the latest version of jQuery to accomplish the following, using the comments in the code I've provided as a guide:

   a. Create a function named **addNumbers**, which accepts two parameters. The function should add the two passed parameters together and then write the result to the page element with the id of **result-add**. **addNumbers** should not return a value (10 points).
      i. Course Objective: 3C
   b. Create a function named **multiplyNumbers**, which accepts two parameters. The function should multiply the two passed parameters together and return the result (10 points).
      i. Course Objective 3D.
   c. Create a function named **clear**, which accepts no parameters. The function should clear the contents of the page elements with the ids of **result-add** and **result-mult** (10 points).
      i. Course Objective 3E.
2. **DO NOT** modify the code inside the comments *DO NOT CHANGE CODE BELOW* and *DO NOT CHANGE CODE ABOVE* -- this is code I've provided for you. If you've written your functions correctly, the code I've provided you should run like the **Sample Solution** provided in Blackboard.

```
$(document).ready(function() {
    $('#action').click(function() {
        //DO NOT CHANGE CODE BELOW
        var num1 = parseInt($('#num1').val());
        var num2 = parseInt($('#num2').val());
        clear();
        addNumbers(num1, num2);
        var result = multiplyNumbers(num1, num2);
        $('#result-mult').text(result);
        //DO NOT CHANGE CODE ABOVE
    });

    /*
        Below this comment, create a function
        named addNumbers, which accepts two parameters.
        The function should add the two parameters together
        and write the result to the element with the id
        result-add
    */

    /*
        Below this comment, create a function
        named multiplyNumbers, which accepts two parameters.
        The function should multiply the two parameters together
        and return the result.
    */

    /*
        Below this comment, create a function named
        clear, which accepts no parameters. The function
        should clear the contents of the elements with the
        ids of result-add and result-mult
    */
});
```

Figure 2

You must use external JavaScript to complete this task. Scripts must be stored in a folder within the **assignment03** folder.

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GRADING NOTES:

The following will result in an automatic grade of zero (0) for Assignment 2:

- Use of inline JavaScript
- Failure to use the jQuery library to complete this assignment.
- Submitting the file in any format other than a compressed ZIP file.

SUBMISSION

When complete, create a single ZIP file containing **index.html** and your JavaScript file(s). The ZIP file should be named **assignment2.zip**.

NOTE: Make sure the file is a ZIP archive. I will not accept ZIPx, 7ZIP, pZip, RAR, etc.

Attach and upload the **assignment2.zip** to the Assignment 2 dropbox in Blackboard.

End Assignment.