WEB-215 Project 3

- 1. Read Chapter 3 and complete all tutorials if you haven't done so already.
- 2. Create a valid HTML document named Last-First-Proj3.htm (substitute your first/last name)
- 3. Link to an external JavaScript file named Last-First-Proj3.js (substitute your first/last name)
- 4. Apply best practices to your JS code, including:
 - Ending statements with semicolons
 - Use of tabs and spaces
 - Maintaining code readability
 - Use of comments only when necessary/required
 - Consistency with quotes
- 5. Complete the following exercises in your JS file, beginning each one with a comment stating the exercise title and a "dashed line paragraph block". For example:

```
// Conditionals document.write(' - - - - - - - - - - - - - - - ');
```

Conditionals

if

- 1. Use the following variables for this exercise:
 - a. stock = 100
 - b. sold = 20
- 2. Create an *if* statement that tests to see if there are any items still left in stock. If there are, calculate and display the number of remaining items.

The output should display a single line using document.write().

if-else

- 1. Use the following variables for this exercise:
 - a. expression = 5+2
 - b. solution = 7
- 2. Create an *if* statement that tests to see if the expression and the solution are equal. If they are, display a message saying "Congratulations". If they aren't, display a message saying "Incorrect".
- 3. Duplicate steps 1 and 2 in another code block, but change the solution variable to 99.

The output should display 2 lines – each with a different message – using document.write().

else-if

- 1. Use the following variable for this exercise:
 - a. total = 76
- 2. Test if the total is more than 100 and if it is, display the text "*Total* is more than 100". Otherwise, if the total is only more than 50, display the text "*Total* is greater than 50 but not more than 100". Otherwise, just display the text "*Total* is small". In each case, replace the word "*Total*" with the actual value of the total variable.
- 3. Duplicate the code block, update the total to 125 and repeat step 2.
- 4. Duplicate the code block, update the total to 31 and repeat step 2.

The output should display 3 lines – each with a different message – using document.write().

Multiple conditions

- 1. Use the following variable for this exercise:
 - a. salary = 80000
- 2. Create an *if* statement that tests if the salary is between 70,000 and 1,000,000. If it is, display a message saying "Good salary". Otherwise, display a message saying "Keep saving".
- 3. Duplicate the code block, update the salary variable to contain the value 30000 and repeat step 2.

The output should display 2 lines – each with a different message – using document.write().

Loops

while

1. Complete the while loop so new lines are output sequentially, showing the number 1, then 2, then 3, and so on until the number 5 is displayed. The number 6 should not display. **Do not modify code in bold green.** *Do modify code in italic orange*. Use 'num' as your variable name.

```
variable assignment;
while(condition) {
   possible code...
   document.write(num + '<br>');
   possible code...
}
```

do - while

1. Rewrite the code above using a *do-while* loop instead.

for

- 1. Use a *for* loop to display each member of the following array on its own line:

Functions

Be sure to adhere to best practices regarding the use of local and global variables.

Functions and arguments

- 1. Create a function that takes a single argument and displays it on its own line using document.write().
- 2. Call the function, passing it a string to display.
- 3. A new line should display the passed string.

Multiple arguments

- 1. Create a function that takes two numbers as arguments, multiplies the numbers, and returns a result storing it in a variable named **finalProduct**.
- 2. Call the function, passing it two integers.
- 3. No output should display. The final result is simply stored for later use.

Testing before Submission

- Load your HTML file in a browser.
- Make sure the JavaScript all works and the HTML validates.
- Place all your HTML and JS files in a folder named **Last-First-Proj3**. File naming must be exact! (But use your own first/last name.) Zip the folder and upload via Moodle.