



## Assessment 4: Write and design a plugin from scratch (25 points)

**Due:** see the course outline for a specific date

In this assignment, you will practice creating a jQuery plugin. Please check the instruction and requirements to complete this assignment.

### ■ Instructions

In assignment 3, you created a to-do list web application. In this assignment, you need to print only the list element to a pdf file; not to a console or HTML page. The list should be printed using a browser printing feature. Only the list items and their content should be printed; all other page elements must not be printed.

**Tips:** jQuery does not have the print feature, so you need to use JavaScript print() function. Notice that the print() function does not accept any data or parameters. The print() function can be chain to a document or window object e.g. **window.print()**; . Anyway, the best way to print only a part of the page is by creating one. Here is how to create a window/document and print out using JS functions:

1. Create a window using the 'open()' function. It better to place into a variable so we can work on the window object later:
  - a. E.g. `var print_window = window.open();`
2. Write content to the window object using 'write()' function. The write() function can take any type of content, but you need to pass content as a string or DOM object. You can pass one or multiple elements, e.g. `write("content", "div")`.
  - a. E.g. `print_window.document.write("print me")`
3. Now, print the content using print() function. Like the open() function, just chain a document/window to the print() function.
  - a. E.g. `print_window.document.print();`
4. Finally, close the window using close() function such as `window.close()`.
  - a. E.g. `print_window.close();`

If you decided to follow the steps above, you only need to figure out how to format your content using jQuery function; then pass it to the write function. You can use this example:

```
var print_window = window.open(); // Create a new window
var world = "world"; // content
print_window.document.write("Hello" + ' ', world); // add content to the page
print_window.print(); // print hello world
print_window.close(); // close the window
```

### ■ Requirements

1. The list elements should only print under each other; not in one line.
2. Only print the list content; not the whole DOM object.
3. The list should be print with style listed below:

- a. Bold or strong font.
  - b. Font size is 14 px.
  - c. Font color is black.
4. The list should be titled with 'List:' and the title font size should be 16px.



*Figure 1: An example of possible output*

5. All current list items should be printed. That means if the list content updated, you should print the most updated content of the list.

**Please refer to the rubric at the end of this document for evaluation details.**

### **Submit**

1. Name your folder plugin\_project.
2. Right-click on the folder and select 'Send to -> Compressed (zipped) folder'.
3. Upload the zipped folder to the Assignment 4 Dropbox

### **Wrap up your project:**

Now, check all project folders and files, make sure they all open fine. Next, zip your main/root folder and only send that zip folder. Here are some links that may help with file formatting:

- How to zip a file in Windows 10: <https://www.laptopmag.com/articles/how-to-zip-files-windows-10>
  - Free file compressor application for Windows: <http://www.7-zip.org/download.html>
- How to zip a file in Mac: <https://www.lifewire.com/how-to-zip-and-unzip-files-and-folders-on-a-mac-2260188>
  - Free file compressor application for Mac: <https://theunarchiver.com/>
- How to save a pdf in MS Word document: <https://www.bettercloud.com/monitor/the-academy/save-word-doc-pdf/>

## Evaluation

This assessment is graded out of 25 points and will be evaluated using the following rubric.

Learners may receive partial scores or zero for unacceptable work.

	Excellent: 5 point	Good: 3 point	Fair: 1 point	Poor: 0 point	Score
The list elements printed under each other; not in one line.					/5
Only print the list content; not the whole DOM object.					/5
The list should be print with the required style, and the list should be titled with 'List:' and the title font size should be 16px.					/5
All current list items should be printed. That means if the list content updated, you should print the most updated content of the list.					/5
Coding	There are no errors in another coding on the site as found by me or an online validator.	There are 1-3 coding errors on the site as found by me or an online validator.	There are 4-5 coding errors on the site as found by me or an online validator.	There are more than 6 coding errors on the site as found by me or an online validator.	/5
				<b>TOTAL</b>	<b>/25</b>