

**COIS 3420 Winter 2019**  
**Assignment #3**

**Question #1**

To start you will need to make an HTML page which contains the HTML elements necessary to complete tasks below. Each of the task should be in its own <section> with a heading identifying its purpose. You can give each <section> an ID to simplify writing the scripts for each task. Other than the sections, none of your HTML elements should have classes or IDs. You also need to write enough CSS to make everything look decent. Then in an external JavaScript file write the JavaScript/jQuery to complete the following:

1. HTML requirements:: paragraph of text. Script: paragraph will disappear when it is clicked.
2. HTML requirements: an unordered list of 4 items. Script: when the user clicks any of the list items it toggles (on/off) a yellow background on the parent list.
3. HTML requirements: a paragraph of text. Script: the paragraph text should turn red when clicked once or turn blue if double-clicked (use direct CSS modification, not css classes)
4. HTML requirements:: a text input field & and an empty paragraph for output. Script: Whatever you type in that input field should also appear directly below it in a paragraph tag. This should happen with every character typed
5. HTML requirements:: a button & a 5em / 5em div, two textboxes. Script: clicking the button should change width/height of the div by the values in the text boxes
6. HTML requirements: button that will fade an image in or out when clicked
7. HTML requirements: a unordered list of 5 items. Script: clicking on any list item should add a new list item immediately after the item that was clicked on. Your script must be written in such a way that even new list items are clickable.
8. HTML requirements:: 10em/10em div. Script: The first time the div is clicked on, it should take 2 seconds to hide, pause for 1 second then take 2 seconds to show. On every subsequent click (any click after the first), it should slide up and fade out simultaneously for 3 seconds, wait 1 second then slide down and fade in simultaneously for 3 seconds

**You are only required to do one of Question #2 or Question #3.**

**Question #2**

Many of the interesting things we can do in front-end today are done with JavaScript libraries. For this part of the assignment, research a JavaScript library of your choice and in the format of a blog style “how-to” tutorial write 1000-1500 words (not including code) introducing the

reader to your library of choice, it's pro's and con's as well as how they would get started using it. You must include code examples, which must be your own, and shouldn't be something taken directly out of the libraries documentation or someone else's tutorial. DO NOT use a JavaScript framework for this question.

You can find some interesting JavaScript libraries here:

<https://getflywheel.com/layout/best-javascript-libraries-frameworks-2019/#libraries>

### **Question #3**

For this question you are going to need to be creative. Using jQuery, AJAX and an API of your choice build a fun or interesting little JavaScript application. Your submission for this question shouldn't contain any use of PHP or databases. Just JavaScript/jQuery, HTML and CSS.

You can find some fun potential APIs here:

<https://rapidapi.com/collection/cool-apis>

<https://medium.com/@vicbergquist/18-fun-apis-for-your-next-project-8008841c7be9>