

Homework 2

Due: 2 Feb 2024

I strongly suggest you start a fresh subdirectory for this homework, which will involve a number of files and you'll hand in all of them.

Problem 2.1

Create a webpage that has a button underneath a paragraph that has some text in it. When the button is clicked, the text of that paragraph (and only that paragraph) should overwrite the contents of a different paragraph immediately below the button.

If someone edits the webpage to change the contents of the source paragraph, the button's behaviour should reflect whatever its current contents are (i.e. don't hard-code the text into string literals).

Problem 2.2

In that same webpage or a different one, put

- a slider or scrollbar,
- that is labelled 1 to 100,
- with an area to its side that displays the numeric value of the slider in a different and larger font from the main text of the page,
- where the slider and number are separated by a vertical line,
- and the number updates whenever the slider is moved by the user.

Problem 2.3

In that same webpage or a different one, put a small section with at least three paragraphs of arbitrary text; below it put a text input field (that lets the user type something) and a button. When the button is clicked, if the text input field has any contents, that text, in italics (emphasis), should be added at the end of all of the paragraphs in the preceding section, and

then the field should be cleared. (It should keep working if the user does it again!) If the button is clicked when the field is empty, a warning message should pop up instead.

Javascript functions for this problem (and optionally also for the others) should be in an external file with a `.js` extension.

The last two problems will require making use of HTML, CSS, and JS features I haven't shown you (although they're generally *similar* to what we've talked about).

A readme file in the directory should let me know where to find the three problems' contents by URL, and if they are spread across multiple files, where to find each problem per file.

Handing in:

Assuming you have made a subdirectory for this assignment, first go to that subdirectory (possibly with a sequence like

```
cd public_html
cd 210
cd hwk2
```

or similar, depending on your specific naming choices), then type the following:

```
handin cmsc210 hwk2 .
```

If you haven't made a subdirectory for it, you can replace the dot in that with all the files you need to hand in, separated by spaces (but the subdirectory way is certainly easier).