**Javascript Strings and Searches**

The small projects below have more than one possible approach to building the solution.

Concepts

* Interacting with DOM elements, Event listeners
* Creating variables and using simple expressions and functions
* Using Arrays

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| 1 | Input text and display text in 3 boxes (1) unmodified (2) toUpperCase (3) toLowerCase |  |
| 2 | Input a string and display the letter at the given index using the slice() method.  On a separate line display the string from that same character to the end of the string |  |
| 3 | Input a sentence and a search string, and search for the string in the sentence using indexOf() method |  |
| 4 | Input a sentence and a search string and search for the last occurrence of the string using lastIndexof() method |  |
| 5 | Input a string and output all characters looping first to last character using for (var i = 0; i < string.length; i++) displaying charAt(i) |  |
| 6 | Input a string and a character and an index number.  Replace the character at the index with the inputted character. Eg string 'xyz' character 'A' index '1' becomes 'xAz' |  |
| 7 | Input a sentence and search and replace strings.  Using the replace() method, replace the first search string in the text with the replacement string eg "abc" "xyz" replaces "abc" with "xyz" in the sentence |  |
| 8 | Repeat above replacing every occurrence of a single character entered by the user, not just one |  |
| 9 | Input a number and using Math.round, Math.ceil and Math.floor round the number (1) to the nearest integer (2) up to the nearest integer (3) down to the nearest integer |  |
| 10 | Using a website such as Stack Overflow, find and implement code to round a number to any number of decimal places, as specified by the user |  |