

CODE EXERCISE

JAVASCRIPT STRINGS

Here's a guide to some of the most common JavaScript string functions:

`length` - returns the number of characters in a string.

```
let string = "Hello World!";  
console.log(string.length); // 12
```

`concat()` - combines two or more strings and returns a new string.

```
let string1 = "Hello";  
let string2 = "World";  
console.log(string1.concat(" ", string2, "!")); // "Hello World!"
```

`indexOf()` - returns the index of the first occurrence of a specified string value. It returns -1 if the value is not found.

```
let string = "Hello World!";  
console.log(string.indexOf("World")); // 6
```

`lastIndexOf()` - returns the index of the last occurrence of a specified string value. It returns -1 if the value is not found.

```
let string = "Hello World! World";  
console.log(string.lastIndexOf("World")); // 13
```

`search()` - searches a string for a specified value and returns the index of the first occurrence. It returns -1 if the value is not found.

```
let string = "Hello World!";  
console.log(string.search("World")); // 6
```

`slice()` - extracts a part of a string and returns a new string. The first parameter is the starting index, and the second parameter is the ending index (not included).

```
let string = "Hello World!";  
console.log(string.slice(0, 5)); // "Hello"
```

SUBMITTING EXERCISES

To earn certification all exercises must be submitted and accepted.

1) When you've completed all of the HTML exercises, please zip them into a single file and submit to our Dropbox at <http://bit.ly/CWDP2324>.

2) Next, fill out the certification completion form at <https://forms.gle/5EiUGCM6dGdIF2Py6>.

Remember, that all of your exercises for each module should be included in a separate zip file.

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1) We operate a lively Discord server. Join us at <https://discord.gg/tgxX2fCrv5> and you can ask your question on Discord. Mark and our team of instructional assistants monitor this Discord and answer questions ASAP.

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`substring()` - extracts the characters from a string, between two specified indices, and returns a new string.

```
let string = "Hello World!";  
console.log(string.substring(0, 5)); // "Hello"
```

`substr()` - extracts the characters from a string, beginning at a specified start position, and through the specified number of character.

```
let string = "Hello World!";  
console.log(string.substr(0, 5)); // "Hello"
```

`replace()` - replaces a specified value with another value in a string and returns a new string.

```
let string = "Hello World!";  
console.log(string.replace("World", "Universe")); // "Hello Universe!"
```

`toUpperCase()` - converts a string to uppercase letters and returns a new string.

```
let string = "Hello World!";  
console.log(string.toUpperCase()); // "HELLO WORLD!"
```

`toLowerCase()` - converts a string to lowercase letters and returns a new string.

```
let string = "Hello World!";  
console.log(string.toLowerCase()); // "hello world!"
```

`trim()` - removes whitespace from both ends of a string and returns a new string.

```
let string = "  Hello World!  ";  
console.log(string.trim()); // "Hello World!"
```

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LAB 1

Create a web application that allows users to manipulate strings by using various string functions. The application should have the following features:

- A text input where users can enter a string
- A set of buttons that, when clicked, should manipulate the string in the input using different string functions (e.g. uppercase, lowercase, trim, etc.)
- A read-only text area that displays the result of the manipulation
- A "Reset" button that clears the input and result fields

Here are some examples of the manipulation functions that you should implement:

- A "Uppercase" button that converts the entered string to uppercase
- A "Lowercase" button that converts the entered string to lowercase
- A "Trim" button that removes whitespace from both ends of the entered string
- A "Reverse" button that reverses the entered string
- A "Character Count" button that displays the number of characters in the entered string

You may also implement additional functions like search, replace, substring, substr and so on.

Some technical requirements that you should keep in mind:

- The application should be developed using only vanilla JavaScript (no frameworks or libraries)
- Use of DOM manipulation to handle the input and display the result
- Use of event listeners to handle button clicks
- Use of string functions for the manipulation of the string
- The application should be well-structured, readable and commented

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