

7.1P: String Objects

Tasks

You are given the string `Web programming is fun!`. Each character of this string can be identified by a position index number as shown below:

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
W	e	b		p	r	o	g	r	a	m	m	i	n	g		i	s		f	u	n	!

Task7.1 String and index values

Each *string* is a `String` object in JavaScript. Create a web page to complete the following tasks using JavaScript, especially using the properties and methods of `String` object.

1. Display the number of characters in the string `Web programming is fun!`.
2. Display all characters of the string in *lowercase*.
3. Display all characters of the string in *UPPERCASE*.
4. Display the character at position *14*.
5. Display the beginning position of the substring `fun` in the string `Web programming is fun!`.
6. Extract and display the substring `programming` from the string `Web programming is fun!`.
7. Prompt the user to type in a **character**, then tell the user whether the input character is in the string `Web programming is fun!` or not.
8. Prompt the user to type in a **string**, then tell the user whether the input string is found in the string `Web programming is fun!` or not.
9. Modify the string to replace the substring `fun` with `the best` and then display the modified string.

Hints

Review the various methods/functions available to work with *JavaScript String Objects*:

- https://www.w3schools.com/js/js_string_methods.asp
- https://www.w3schools.com/jsref/jsref_obj_string.asp

What will you submit?

You should submit:

- Screen-shot of the web page.
- HTML file with JavaScript.