JAVASCRIPT STRING TEMPLATES

JavaScript template literals are a way to create strings that include expressions and variables. They are enclosed in backticks (```), rather than single or double quotes.

```
let name = "John";
console.log(`Hello, ${name}!`); // "Hello, John!"
```

Inside a template literal, expressions can be included using the ${expression} syntax. These expressions can include variables, function calls or arithmetic operations.

```
let number1 = 2;
let number2 = 3;
console.log(`Sum: ${number1 + number2}`); // "Sum: 5"
```

Template literals can also be used to create multi-line strings, by simply including line breaks in the string.

```
let message = `Hello
world!`;
console.log(message); // "Hello\nworld!"
```

In addition to string interpolation, template literals also provide a way to create tagged templates. Tagged templates are templates that are "tagged" with a function that can process the string parts and expressions inside the template.

```
function toUpper(strings, ...values) {
    let result = "";
    for (let i = 0; i < values.length; i++) {
      result += strings[i] + values[i].toUpperCase();
    }
    result += strings[strings.length - 1];
    return result;
}
let name = "John";
console.log(toUpper`Hello, ${name}!`); // "Hello, JOHN!"
```

This technique can be use to create a custom logic like HTML Sanitization, Translation, formatting and etc.

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/5EiUGCM6dGd1F2Py6.

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

GETTING HELP

We always want to ensure that your questions are answered. There are a number of ways to get in touch.

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.

2) This certification program is offered on several platforms. Most platforms have a Q & A section where you can post questions. We monitor these and respond as quickly as we can.

3) You may use our question hotline email at questions@dollardesignschool.com.

Remember to always to include which section your question is from and send any code you're working on!

CODE EXERCISE
JAVASCRIPT STRING TEMPLATES

LAB 1

Create a Mad Libs game that prompts the user for various parts of speech (nouns, verbs, adjectives, etc.) and then generates a story using those inputs. The story should be generated using JavaScript template literals.

Here are the steps you should follow to complete the project:

1) Create an HTML file with a form that allows the user to input various parts of speech (e.g. noun, verb, adjective).

2) Create a JavaScript file that:

- Grabs the values of the inputs from the form and assigns them to variables.

- Creates a template literal string that includes placeholders for the user inputs.

- Use the values of the variables to replace the placeholders in the template literal string.

- Display the final story on the page.

3) Make it more fun, by displaying the final story on a modal or similar, where the user can interact with the final story by reading the story, and also make sure to validate the input fields so the final story will make sense.

4) Bonus: make the game a multiple choice game, where users select which words they want to use by select boxes or radio buttons

5) Bonus: Add a save feature where users can save their stories and recall them later.

- Some technical requirements that you should keep in mind:

- Use of JavaScript template literals for string interpolation

- Use of DOM manipulation to handle form inputs and display the final story

- Use of event listeners to handle form submission.

- Use of form validation to ensure that the user inputs are valid.

- The application should be well-structured, readable and commented