

WDD 231

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W01 Learning Activity: JavaScript Review

Overview

This activity is a review of some basic JavaScript concepts, application, and DOM (Document Object Model) manipulation. JavaScript is a core web technology in web frontend design and development along with HTML and CSS. This course will require the application of JavaScript to meet functional and developmental outcomes.

Activity Instructions

As you work through this JavaScript Learning Activity assignment, you will be asked to make a copy (called a fork) of a partially completed CodePen. The **JS** tab of this CodePen has a series of comments starting around line 22 where you will add or alter JavaScript to finish steps 4 through 10 of this assignment.

1. What is the correct HTML markup to reference an external JavaScript file named **app.js** located in the **scripts** folder?

▼ Check Your Understanding

```
<script src="scripts/app.js"></script>
```

```
<script src="scripts/app.js" defer></script>
```

Where should this script reference be located in the HTML document?

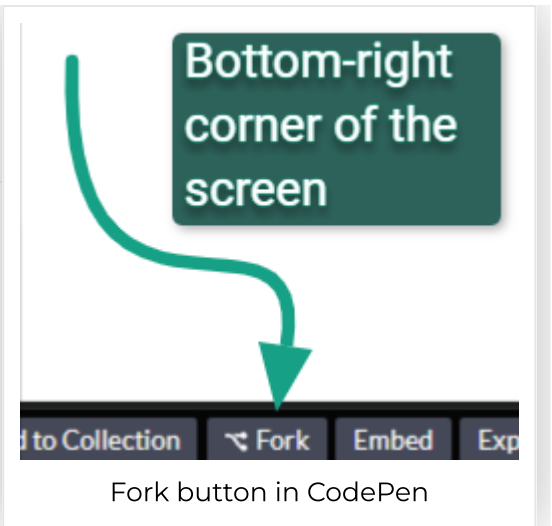
If you reference this script in the **head** of the document, you should use the **defer** attribute given that the script may contain references to the document object that need to be rendered first. The first example given here is a reference that is used at the end of the document, right **before** the closing **</body>** tag.

2. If you haven't already, establish your own [CodePen account](#) at no cost. This will enable you to fork content and construct your own pens (code snippets) for personal reference.
3. Fork (copy) this CodePen [JavaScript Review Exercise](#) and complete the following:

1. Change the given date output to this format: **mon dd, year** (for example, "Apr 04, 2024")

▼ Check Your Understanding

1. Modify the given variable **options** object settings.
2. Change the locale parameter from **"en-UK"** to **"en-US"** in the **toLocaleDateString** method.



2. Replace this concatenated string using a [template literal](#).

```
"<strong>Volume</strong>: " + volume + " liters"
```

▼ Check Your Understanding

```
`<strong>Volume</strong>: ${volume} liters`
```

3. Declare a variable named **quantity** and assign it the **value** of the HTML **input** element with an id of **q** using the [querySelector](#) method.

▼ Check Your Understanding

```
let quantity = document.querySelector('#q').value;
```

4. Output this string, "**Welcome to our neighborhood!**", to the first **<aside>** in the document.

▼ Check Your Understanding

```
document.querySelector('aside').innerHTML = 'Welcome to <em>ou
```

Why use [innerHTML](#) versus [textContent](#) in this specific case? Try It.
Is it OK to use double quotes to contain the output string?
Is it OK to use backticks (`) to contain the output string?

5. Output the returned value of a function named **getCelsius** to an HTML input element with an id of **temp**. Feed the **getCelsius** literal value of 33 (which

represents 33°F). The **getCelsius** function is already included in the provided CodePen code.

▼ Check Your Understanding

```
document.querySelector('#temp').value = getCelsius(33);
```

An HTML **<input>** element does not have an **innerHTML** nor **textContent** property. Instead you can change the **value** property which is displayed in the input element.

6. Select all the **div** elements in a document and assign the result to a **const** variable named **divs** using [querySelectorAll](#). Output to the provided **div** element with an id of **divs** in the CodePen.

▼ Check Your Understanding

```
const divs = document.querySelectorAll('div');
```

The resulting NodeList is a collection of nodes from the document driven by [querySelectorAll](#). It has a length and is zero-based indexed.

7. [Filter](#) an array named **citynames** to return only city names in the array that start with the letter "C" and store the resulting array into a variable named **filterC**. Output to the provided **div** element with in the CodePen.

▼ Check Your Understanding

```
let filterC = citynames.filter(city => city.charAt(0) === 'C')
```



▼ Example Solution

Example Solutions CodePen: [JavaScript Review Exercise Solutions](#)

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