

# Assignment 4: Javascript 2

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## 1

For readability and maintainability.

## 2

Bad comments are vague, not relevant to functionality of code or are used to archive chunks of code for long periods of time. Good comments can be detailed statements on functionality of a method or procedure, authors specifications or give quick labels that state where recent changes were made.

## 3

A variable that holds a collection of values(can be empty).

## 4

It allows you to store many values in a clean format that's easily manipulated.

## 5

Using `array[i]` where `array` is the array and `i` the index of element.

## 6

You can do it with `array[i] = newVal`, where `array` is the array, `i` the index of element you wanna change and `newVal` the new value.

## 7

Elements can be accessed and modified efficiently with their index in  $O(1)$  time and the length of the array can be retrieved..

## 8

`sort()`, `toString()`, `join()`, etc.

## 9

They are useful for running the same piece of code repeatedly.

## 10

It breaks from the loop.

## 11

It skips one iteration of the loop.

## 12

The Document object model is a platform and language-neutral interface that allows programs and scripts to dynamically access and update the content, structure, and style of a document.

## 13

You can use built in methods to access by Id, class name, tag or query selectors, then assign it to a variable.

## 14

Using `document.createElement()`.

## 15

You can do it using `parent.append()` or `parent.appendChild()`.

## 16

You can do it using `remove()`, `removeAttribute()`, `removeAttributeNode()`, `removeAttributeNS()`.

## 17

You can use `setAttribute()`, `setAttributeNode()`, `setAttributeNodeNS()` or `setAttributeNs()`.

## 18

`textContent`.

## 19

At the end of the body.

## 20

Events are actions that occur on the webpage like the click of a mouse, loading of webpages or pictures, mouse hovers over elements, an input field change, a form being submitted, user strokes a key, etc. Event listeners wait for an event to occur and let an event handler define how to handle these events.

## 21

Inline event handlers, Event handler properties and Event listeners.

## 22

Multiple event listeners can be set on the same element. And they can be easily removed.

## 23

It makes it easy to remove these events and allows you to reuse it if needed.

## 24

You could add an event listener to the parent of the nodes you want to listen to.

## 25

QuerySelectorAll selects all the elements that match the query but QuerySelector just returns the first element to match the query.

## 26

A collection of nodes extracted from the document, it includes element nodes, attribute nodes and text nodes.

## 27

When an event trickles up through the family hierarchy is bubbling. Capturing makes it so the event trickles down the hierarchy from the outermost element to the target element.

## 28

Objects represent things with characteristics while arrays creates and store lists of data in a single variable.

## 29

You can do it with Dot property accessor, square property access and Object destructuring.