JavaScrip 2

1. Why is it important to write clean code?

Having a clean code simplify the task for the programmers to read the code, it let the other programmers to understand better and it’s easier to make upgrades or include changes

1. [What is the difference between good comments and bad comments?](https://onextrapixel.com/10-principles-for-keeping-your-programming-code-clean/)

Good comments can help programmers to understand certain block of codes and what they do, we can add dates and what we changed on that modification, while bad comments can mislead or confuse programmers, can have too much information or can even don’t explain correctly what the code do.

1. [What is an array?](https://www.w3schools.com/js/js_arrays.asp)

Is a non-primitive data type that enables to store a collection of multiple items under a single variable name, this items can be any data type, primitive and non-primitive, from strings, integrals, to objects or even other array.

1. [What are arrays useful for?](https://www.w3schools.com/js/js_arrays.asp)

They are useful for containing large sets of data under a single variable, they are useful to organize the data, sorting them.

1. [How do you access an array element?](https://www.w3schools.com/js/js_arrays.asp)

We can access array items with the brackets and indicating the index of the element that we want to have access.

1. [How do you change an array element?](https://www.w3schools.com/js/js_arrays.asp)

We can use the indexOf() method to get the index of the element of the array we want to change, and then change the value of that specific index

1. [What are some useful array properties?](https://www.w3schools.com/js/js_arrays.asp)

Some useful properties are the brackets, that we can use to have access of an element indicating the index of it and the .length property, that give us the length of the array

1. [What are some useful array methods?](https://www.w3schools.com/js/js_array_methods.asp)

Some useful methods for arrays are join(), split(), unshift(), shift(), push() and pop(). All of this methods helps us for modify the array, if its for adding new elements or removing others.

1. [What are loops useful for?](https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Building_blocks/Looping_code#why_bother)

Loops are useful to repeat a piece of code until a condition it checked, with this we don’t have the need to repeat the same piece of code again and again

1. [What is the break statement?](https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Building_blocks/Looping_code#exiting_loops_with_break)

The break statement helps us to forcedly exit the loop in order to not have an infinite one.

1. [What is the continue statement?](https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Building_blocks/Looping_code#skipping_iterations_with_continue)

The continue statement is similar to the break statement, with the difference that the continue statement doesn’t exit out of the loop, it skips the current iteration and continue with the next one.

1. What is the DOM?

The DOM is a tree-like representation of the contents that conform a webpage

1. How do you target the nodes you want to work with?

We can target the nodes using the document.querySelector method, where we enter the element that we want to select

1. How do you create an element in the DOM?

Targeting the document object, and using the createElement() method where we put the element that we want to create

1. How do you add an element to the DOM?

We need to specify the parent where we want to add the element, use the appendChild() method, with the element we want to add inside the parentheses.

1. How do you remove an element from the DOM?

We need to specify the parent node where its located the element we want to remove, and then we use the removeChild() method specifying the element we want to remove inside the parentheses.

1. How can you alter an element in the DOM?

First we need to create a variable with the element we want to modify, after we have this element inside a variable, we can add an inline style alteration using the following syntax: element.style.property

1. [When adding text to a DOM element, should you use textContent or innerHTML?](https://www.youtube.com/watch?v=ns1LX6mEvyM)

textContent

1. Where should you include your JavaScript tag in your HTML file when working with DOM nodes?

At the end of the body

1. How do “events” and “listeners” work?

The events are the action that the user to in the webpage the listener it’s the function that initiate the process if the trigger is activated.

1. What are three ways to use events in your code?

Adding a listener with the addEventListener method, declaring the event in the html tag as an attribute for example onClick=”” or onHover=”” as an inline, and adding the event as a property

1. Why are event listeners the preferred way to handle events?

Because we can add multiple events listeners for the same event

1. What are the benefits of using named functions in your listeners?

It help us to have a cleaner code, and with named functions we can remove them later with the removeEventListener()

1. How do you attach listeners to groups of nodes?

First iterating all of them with for example the forEach method, and then adding the event listener to one of each elements that the method iterates.

1. What is the difference between the return values of querySelector and

querySelectorAll?

querySelector select the first element that it’s declared in the DOM, while querySelectorAll select all of the elements that match with what we are looking for.

1. What does a “nodelist” contain?

It contains a collection of DOM elements taken from the HTML document.

1. [Explain the difference between “capture” and “bubbling”.](https://www.youtube.com/watch?v=F1anRyL37lE)

In the capture phase the element moves down towards the element, and the bubbling phase is when the event bubbles up from the element.

1. What is the difference between objects and arrays?

The object represent something with characteristics or properties, while the arrays create and store a list of data in a one single variable

1. How do you access object properties?

With the dot notation followed by the property we want to have access.