



WEEK 1 Module 2

A Brief Introduction to JavaScript

CONDITIONAL STATEMENTS

What do you do when you need to run a code based on certain circumstances? Well, you create a condition!

Conditional Statements allow you to run a block of code when a certain condition, defined by you, is met.

To do this, there are various options in JavaScript and they are:

IF... ELSE

SWITCH CASE

TENERARY OPERATOR

We will touch on IF... ELSE statements and a little on switch cases in this module, however, to learn more, you can visit the following links.

https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Building_blocks/conditionals

https://www.w3schools.com/js/js_if_else.asp

<https://www.javascript.com/learn/conditionals>

LOOPS

JavaScript supports different kinds of loops:

for - *loops through a block of code a number of times*

for/in - *loops through the properties of an object*

for/of - *loops through the values of an iterable object*

forEach - *loops through an array this the array limit is reached.*

while - *loops through a block of code while a specified condition is true*

do/while - *also loops through a block of code while a specified condition is true.*

Loops allow you to easily perform multiple tasks in a repeated pattern and even make use of conditionals along with this repetition.

We will cover the basics of for loop in this module but to learn more, visit the following URLs.

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Loops_and_iteration

<https://www.freecodecamp.org/news/javascript-loops-explained-for-loop-for/>

https://www.w3schools.com/js/js_loop_for.asp

FUNCTIONS

What if you have a bunch of code you need to execute all at once? A long, chained operation that you want to make reusable – how do you handle that?

Simple! Just invoke the power of a Function.

A function in JavaScript is similar to a procedure—a set of statements that performs a task or calculates a value, but for a procedure to qualify as a function, it should take some input and return an output where there is some obvious relationship between the input and the output.

In JavaScript, we have the following types of functions.

- **anonymous functions**
- **named functions.**
- **arrow functions**

As usual, we will touch on a few about functions but to caught up more on functions, you can use the following resources.

<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Functions>

https://www.w3schools.com/js/js_functions.asp