Day 8 : Morning

Morning Exercise

Nested Loops

Nested Loop Practice 1

Given the following array, display all the numbers greater then 25.

```
var numbArr = [2,18,35,47,1,59,28];
```

Nested Loop Practice 2

Given the following array, display all the strings.

```
var mixArr = ["Pen",
10,"paper","50", true, 3.14];
```

Functions

What is function?

Resuable piece of code that will take particular action when it's called.

DRY up your code

Definitions

Function name

- Name of the function for later use

Parameter

- The variable names which are inputs of the function

Definitions continued...

Arguments

- The values being passed into the function

Return value

- The variables which are output of the function

Nested Functions

Scopes

Scopes

Scope controls when and where the variable is available and accessible to specific part of your code.

Global Scope vs Local Scope

Local Scope

Function scope

Block Scope

Hoisting

JavaScript handles hoisting. As long as functions and variables are in the same scope, declaration and calling can be done anywhere.

Name Collisions

The variable or the function will only recognize the last declaration.

In other words, the later declaration will override the previous declaration.

Algorithm

Algorithm is sets of actions to solve a problem.

Ex.. baking, cooking, cleaning, driving… etc.

Problem solving in JS

Sorting algorithm

Sort the following array of integers in incrementing order.

```
var numbArr = [2,18,35,47,1,59,28];
```