

Day 7 : Morning

Introduction to Programming

What is programming?

- The action of writing computer programs
- The process of creating computer or web application
- The process of scheduling, ex, radio, television alarm... etc.

Programming Languages

Gives you toolset to define what the program will be using words (most often times in English)

- Javascript
- Ruby
- Python
- Java
- C++
- C
- C#
- PHP
- R
- Lisp
- Prolog
- Ada

Clean Code

Ask the right question

Make use of comments

Variable Casing

Wikipedia : Camel case

Wikipedia : Snake Case

Javascript

Javascript is...

A language used on both browser and on the server to add actions and procedures to a webpage or executing complex server side behaviors.

File extension .js

ECMAScript

ECMAScript is the name for standards that dictate what features will be available when JS is implemented on an application.

- ECMAScript
- ECMAScript2017
- ES.Next
- [Wikipedia : What is ECMAScript](#)

Keywords and reserved words

Keywords are words that are used by the compilers or interpreters that holds certain functionality within a programming language.

Reserved words are words that are used by the compilers or interpreters that has already been defined. Keywords.

Logic

Code that is used to control behavior of your program / applications

- Problem solving
- Breaking down problem
- Solve smaller problem
- Write code that flows naturally

Running JS Code

Embed

```
<!-- html code -->
```

```
<script>
```

```
    alert("Hello world!");
```

```
</script>
```

Running JS Code continued...

Inline

```
<button onClick="alert( 'Hello  
world! ' ) ;">
```

Running JS Code continued...

HTML file

```
<script  
src="main.js">  
</script>
```

JS file

```
alert("Hello  
world!");
```

Variables

var : variable, sets certain word to hold value of what it's equal to.

```
var name = "Wonjun";
```


Variables continued...

Let : sets certain word to hold value of what it's equal to

```
let name = "Wonjun";
```

Variables const...

Const : constant, sets certain word to hold value of what it's equal to. Unchangeable

```
const name = "Wonjun";
```

Data types

Unlike other higher level programming languages such as java, C or C++, data types are automatically assigned in JavaScript.

Numbers

Integers vs floats

String

One line

“Queensborough Community College”

“Summer Techwork 2019”

String continued...

Template Literal

,

Queensborough Community College

Summer Techwork 2019

,

Boolean

True

False