**Fluency Review Template**

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**Date:** January 21, 2018

**Week:** 3

**Coding Topic:** Loops, Conditional Statements, Functions, Variables, Parameters, Arrays, Associative Arrays

**Description of Understanding:** This first topic group I spent the most amount of my time trying to refresh my memory HTML, CSS and JavaScript. I learned how to declare and assign values to variables with ‘var’, ‘let’ and ‘const’. Rather than creating .java files, I challenged myself to code javascript in html. I created FOR, WHILE, and DO..WHILE loops, and used math operators to calculate values with variables. Additionally, I created and worked on some arrays. I declared arrays and extracted the values into a text variable to show to the user when a button was clicked. I also created an associative array to reference directly to specify values in the array. Finally, I learned how to traverse an array’s values with a for loop and sort an array as well. All the arrays were used in functions which were referenced by the html section.

**Teaching Video:** [Learning topics 1, 2, & 3](https://drive.google.com/file/d/1qx8iqxrwVmZuYUZ54kSFnOztcTF9lyo3/view)

**Starting at:** 0:00 to 17:00

**Also Integrated with:** Loops, Conditional Statements, Functions, Variables, Parameters, Arrays, Associative Arrays

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| --- | --- | --- | --- |
| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| Variables.html | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/01.%20Loops%2C%20Conditional%20Statements%2C%20Functions%2C%20Variables%2C%20Parameters%2C%20Arrays%2C%20Associative%20Arrays/Variables.html) | Examples of variables and loops | Mine |
| Functions.html | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/01.%20Loops%2C%20Conditional%20Statements%2C%20Functions%2C%20Variables%2C%20Parameters%2C%20Arrays%2C%20Associative%20Arrays/Functions.html) | Use of functions, variables, and loops. | Mine |
| Arrays.html | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/01.%20Loops%2C%20Conditional%20Statements%2C%20Functions%2C%20Variables%2C%20Parameters%2C%20Arrays%2C%20Associative%20Arrays/Arrays.html) | Examples of arrays and associative, functions, loop and variables. | Mine |

**Coding Topic:** Object Creation Functions, Inheritance, Properties, Methods, Instantiation

**Description of Understanding:** The second topic group I learned about object creation. I learned that we can create objects where its contents can be accessed as an attribute. I also learned that I can add more properties to the object even after I’ve declared the object with specific properties. In previous courses, I found that inheritance was difficult to grasp due to the necessary setup. This time around, after discussion with the team, the concept is easier to understand as a box w/ contents within another box. I demonstrate the ability to use define properties and how to determine the relationship of objects with their parent objects. Methods and creating methods is a simple concept, including creating methods in objects, then calling them, and even implementing additional methods to an object.

**Teaching Video:**  [Learning topics 1, 2, & 3](https://drive.google.com/file/d/1qx8iqxrwVmZuYUZ54kSFnOztcTF9lyo3/view)

**Starting at:** 17:00 to 29:00

**Also Integrated with:** Object Creation Functions, Inheritance, Properties, Methods, Instantiation

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| Object Creation Functions | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/02.%20Object%20Creation%20Functions%2C%20Inheritance%2C%20Properties%2C%20Methods%2C%20Instantiation/Object-Creation-Functions.html) | Object creation functions, accessing properties, methods and adding values | Mine |
| Inheritance | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/02.%20Object%20Creation%20Functions%2C%20Inheritance%2C%20Properties%2C%20Methods%2C%20Instantiation/Inheritance.html) | Object instantiation, inheritance, and properties. | Mine |
| Methods | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/02.%20Object%20Creation%20Functions%2C%20Inheritance%2C%20Properties%2C%20Methods%2C%20Instantiation/Methods.html) | Description and demonstration of methods. | Mine |

**Coding Topic:** JSON Parse, Stringify

**Description of Understanding:** In the third learning topic section, I learned about JSON parsing and stringify. I discovered the purpose for these is so that data can be transmitter and received from web servers. The research I performed determine that this data is commonly transmitter as text between sources. So with JSON parse, I am able to covert the text into Javascript objects and with stringify, objects can be converted into text for data submission

**Teaching Video:**  [Learning topics 1, 2, & 3](https://drive.google.com/file/d/1qx8iqxrwVmZuYUZ54kSFnOztcTF9lyo3/view)

**Starting at:** 29:00 to 34:00

**Also Integrated with:** JSON Parse, Stringify

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| JSON Parse | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/03.%20JSON%20Parse%2C%20Stringify/JSON%20Parse.html) | JSON Parsing and function conversion | Mine |
| Stringify | [https://github.com/romero-julian/CIT-261-Portfolio/...](https://github.com/romero-julian/CIT-261-Portfolio/blob/master/03.%20JSON%20Parse%2C%20Stringify/Stringify.html) | Use of stringify and function to text conversion using toString(). | Mine |