

FRONTEND DEV WEEK 2 RESEARCH ASSIGNMENT

Prompts:

1. What are the different loops JavaScript provides us with?
2. What is the syntax of one of the loops in your above answer? How and when should you use this loop? Give an example.
3. What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.
4. What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.
5. What is your favorite thing you learned this week?

Response:

JavaScript provides us with three different types of loops such as:

“For” loop, “while” loop and “do-while” loop. To better understand these loops, we need to understand what a loop or looping is in JavaScript or in any other coding language is. Looping refers to the process of executing a section of code repeatedly. There are multiple ways in which a program can loop, such as ‘while, for, and do-while loops’ as mentioned above.

To create a loop, we use what is called an iterator or `[i]`. `[i]` is used to represent a variable or a portion of a code which is factored in an operation or simply a line of code that will be executed repeatedly. Let’s illustrate a loop with the following prompt taken from the JavaScript Lab of Week 2. Before we illustrate let’s write the syntax of each loop

```
For loop --> for (expression 1; expression 2; expression 3) {  
  // code block to be executed  
}
```

```
while loop-> while (condition) {  
  // code block to be executed  
}
```

```
do-while loop-> do {  
  // code block to be executed  
}
```

`while (condition);` Now let’s look at some examples

```
// write a for loop that will iterate from 0 to 10  
for(let i = 0; i <= 10; i++){  
  console.log(i);  
}  
  
// write a do/while loop that prints 1 through 50  
let iterator = 1;  
do{  
  console.log(iterator);  
  iterator++;  
}while(iterator <= 50);  
  
// write a while loop that will iterate from 0 to 10  
while (i < 10) {  
  text += "The number is " + i;  
  i++;  
}
```

This week for very revealing and fun. Learning about loops was very fun. Even though it's a bit confusing. More practice will sure help.

Portion of the code used in this research were taken from the following resources

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

<https://github.com/promineotech/JavaScript-Labs/blob/master/ConditionsAndLoops-Solution.js>

<https://youtu.be/JyoMFQ4Ci9A>