More Loops

- The For Of Loop
- The For In Loop
- The While Loop
- Array.forEach()

More About Functions

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- Callback Functions
  Functions can be stored in variables, and even passed to functions as arguments.
  A function that is passed as an argument to another function to be called later is called a CALLBACK.

- Anonymous Functions
  Callbacks can be predefined/named functions or ANONYMOUS functions that are defined at the time they are passed to another function.

  Example:

```javascript
function hello(){
  alert("hello");
}

// Using the predefined hello function as a callback
window.addEventListener("load", hello);

// Using an anonymous function as a callback
window.addEventListener("load", function(){
  alert("world");
});
```

HTML Collections

- While `getElementById` returns a single HTML element, some functions like `getElementsByTagName` and `getElementsByClassName` return a group of objects called an HTML Collection. An html collection can be iterated through, similar to an array.

  For example, to get all `<li>` elements on a page and add the class `listItem` you could do this:

```javascript
const items = document.getElementsByTagName("li");
for (let item of items) {
  item.classList.add("listItem");
}
```

Creating HTML Elements

- To create a new HTML element: `document.createElement`
- To add the new element as a child to an existing element: `appendChild`
- For example, to create a `<p>` element and place it inside the `<body>` element:

```javascript
const pTag = document.createElement("p");
document.body.appendChild(pTag);
```