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Week 3 Answers

Explain the difference between the == operator and the === operator.

The == operator is used to compare two values. However, when the values are of different types, this operator behaves strangely. For example, false == "" will return true. To check whether two values are precisely the same, one can use the === operator.

Explain what a closure is. (Note that JavaScript programs use closures very often)

A closure is a function that makes it possible to access private variables in the function. For example, in:

```
function Person(pName){

        var _name = pName;

        this.getName = function( ) {
                return _name;
        };
}
```

the variable _name would normally not be accessible outside this function. However, the function getName makes it possible to retrieve _name.

I found this example here: https://www.youtube.com/watch?v=yiEeiMN2Khs.

Explain what higher order functions are.

Functions that operate on other functions.

Explain what a query selector is and give an example line of JavaScript that uses a query selector.

A query selector finds the first instance of a certain class type in a document. For example document.querySelector(".div"); returns the first instance of a .div element.