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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.