Questions Data Processing Week 2

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

The difference between the == operator and the === operator is that the == operator is used to compare two values and check if they are equal (1==1, Cat==Cat, 0==false) and return true if they are. There will be a type conversion to allow the same values of different types like 1=="1" to be true as well. The === operator is used to compare two values that are exactly the same on every level, thus only if they are completely identical.

Explain what a closure is.

Closure is used to use the same variable name in different functions. With closure, the variables are only accessed within the functions themselves.

Explain what higher order functions are.

Higher order functions are functions that operate on other functions (like the text literally says). This means that that there are functions that make use of different functions in either passing it as arguments or returning it, as the functions are similar to variables.

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

A query selector can be used to find certain lines from the html code based on tags and classes. The following line is a line of code in an html file and the line after that is an query selector that changes the line green, based on its class.

```
<p class="test">Colour the test.</p>

document.querySelector(".test").style.backgroundColor = "green";
```