

Week 2 Questions:

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

The == operator checks for equal value. And the === operator checks for equal value and equal type of the variable. So for the === operator, the variable also has to be of the same type.

So `x == 5` and `x == "5"` will be good, but `x === 5` and `x === "5"` will not be the same.

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

Being able to reference a specific instance of local variables in an enclosing function. You can re-use a function to give a value to multiple variables. This makes functions re-usable and you don't have to worry about the lifetime of variables.

**Explain what higher order functions are.**

These are functions that operate on other functions. This can be done by taking them as arguments or by returning them.

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

The query selector returns the first element that matches a specified CSS selector in the document.

```
document.querySelector(".green");
```

this query selector gives you the first element that has the class 'green'.