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Answers week 3:

1) *Explain the difference between the == operator and the === operator:*

With the == operator the operator will compare for equality after the operator has done any type conversions. The === operator cannot do a type conversion, so the two values have to be the same type.

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

A closure is a function within a function. With this function it makes it possible to display private variables which are defined in the lead function.

For example:

```
function lead_func() {  
    var string = 'closure';  
  
    function in_func() {  
        return string  
    }  
}
```

3) *Explain what higher order functions are:*

A higher order function is a function that takes one or more functions as an argument. Besides it takes a function as argument a higher order function can also return a function as result.

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

querySelector method returns the first element that matches a specified selector in the file. For example, a CSS selector. It only returns the first match so not all matches.

To find the first <p> element in the document with class="example"

```
document.querySelector("p.example");
```

source: https://www.w3schools.com/jsref/met_document_queryselector.asp