

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

The double == is an equal to operator and is used to compare two values, and can return true when they are not from the same type ( 1 == "1" is true) . Whereas === is a strict comparison operator, the objects it compares have to be from the same type and every character must be exactly the same. Where Null == Undefined is true NULL === Undefined is false.

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

When a function contains a variable and is called, the variable in the function can be manipulated, however the variable is still 'private' as it is contained inside a function. Closure makes it possible for a function to have a private variable which can still be affected from the outside by calling the function.

- Explain what higher order functions are.

Higher order functions are function that take in arguments of other functions, or even the functions themselves. Also it often returns a function for itself.

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

A query selector searches a document and returns the first element that corresponds to it's search values.

In this case it returns the first h1 header in an HTML file.

```
document.querySelector("h1");
```