

# Data processing — Reading Assignment and Resources — week 2

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## 1 Explain the difference between the `==` operator and the `===` operator.

They both compare equality, but the `==` operator will only compare after the necessary type conversions unlike the `===` operator.

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

A closure is an inner function that has access to the outer function's variables. The inner function has the ability to reference a specific instance of local variables in the enclosing function. Closures are nothing but functions with preserved data.

## 3 Explain what higher order functions are.

A higher order function is a function that can take another function as an argument, or that returns a function as a result.

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

The query selector method returns the first element that matches a specified CSS selector(s) in the document.

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```
1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <h2>A h2 element</h2>
6 <h3>A h3 element</h3>
7
8 <script>
9 document.querySelector("h3").style.backgroundColor = "red";
10 </script>
11
12 </body>
13 </html>
```

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This will add a red background color to the `<h3>` element.

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