For Loops Another type of loop!

Objectives

- Understand the purpose of *for loops*
- Write valid for loops
- Compare and contrast while loops and for loops

Another way of repeating code

```
for(init; condition; step) {
   //run some code
}
```

It looks weird, I know. Let's take a look at an example.

Printing numbers from 1-5 with a for loop

```
for(var count = 0; count < 6; count++) {</pre>
  console.log(count);
Printing numbers from 1-5 with a while loop
var count = 1;
while(count < 6) {</pre>
 console.log("count is: " + count);
 count++;
```

Printing each character in a string with a for loop

```
var str = "hello";

for(var i = 0; i < str.length; i++){
  console.log(str[i]);
}</pre>
```

And with a while loop

```
var str = "hello";
var count = 0;

while(count < str.length) {
  console.log(str[count]);
  count++;
}</pre>
```

Exercise 1

```
for(var i = 0; i < 16; i+=8){
  console.log(i);
}</pre>
```

Exercise 2

```
var str = "ahceclwlxo";

for(var i = 1; i < str.length; i+=2){
  console.log(str[i]);
}</pre>
```