

10/4/2020

Assignment for w3d1 Timeout and Context/'this' Binding

Do the 2 timeout exercises from the Advanced working with functions > Scheduling: **setTimeout** and **setInterval** section of the book:

- Output every second
 - **setInterval version**
 - **setTimeout version**
- **What will setTimeout show?**

Do these exercises from the Advanced working with functions > **Function binding** section of section of the book:

- **Fix a function that loses "this" (do with bind, wrapper, call, and apply)**
- **Partial application for login**

Arrow functions and lexical 'this' exercise (see slides 46 and 47, probably will cover this on Tuesday)

Fix the code below using an arrow function and then using bind

```
let group = {
  title: "Our Group",
  students: ["John", "Pete", "Alice"],
  showList() {
    this.students.forEach(function(student) {
      // Error: Cannot read property 'title' of undefined
      alert(this.title + ': ' + student)
    });
  }
};
group.showList();
```

Extra Credit (as time and interest allows)

Do the following 2 exercises from the Advanced working with functions > **Decorators and forwarding, call/apply** section of the book:

- Spy decorator (real world example sinon.spy for unit testing)
- Delaying decorator (interesting exercise of setTimeout)

