

## Full Stack IV - Lab 1

- ES6 Promises & Classes

### Developer Note:

- Try to solve the problems without using search engines or stack overflow for the solutions. ●  
Create separate files for each exercise

### Exercise 1:

- Using ES6 syntax for class and subclass using extends to create a Sedan subclass which derives from Car Class.
- The parameters for the Car class is the **model** and **year**. The parameters for the subclass are the **model, year and balance**.
- Use the **super** key word in the Sedan subclass to set the **model and name** in base Car constructor.

```
const car2 = new Car('Pontiac Firebird', 1976);
console.log(car2.details());
// Subclass - extends Car super class
const sedan = new Sedan('Volvo SD', 2018, 30000);
console.log(sedan.info());
```

```
// Output
//Model: Pontiac Firebird Engine 1976
// Volvo SD has a balance of $30000.00
```

#### *ES6 Class and extends Reference*

<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Classes/extends>

## Exercise 2: - Promises

- Write a function **compareNumToTen** that takes a number as an argument and returns a **Promise** that tests and rejects if the value is less than or resolves if greater than the value 10.

### *Promise Reference*

[https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

```
compareNumToTen(15)
  .then(result => console.log(result))
  .catch(error => console.log(error))
```

### **Output**

```
15 is greater than 10, success!
8 is less than 10, error!
```

### **Exercise 3: - Promise.all**

- Use the **Promise.all** syntax to resolve all three promises below and return a new promise. Call the function and use the thenable `.then()` keyword to output the result.

#### ***Promise.all() Reference***

[https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Promise/all](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise/all)

```
var promise1 = 101
var promise2 = "follow the white"
var promise3 = new Promise(function(resolve, reject) {
  |   resolve("rabbit.. neo");
});
```

#### **Output**

```
[ 101, 'follow the white', 'rabbit.. neo' ]
```