Day 8:
Functional JavaScript

Goal

To build a working program with JavaScript functions.

Learning Objectives

By the end of this exercise the student will be able to:
- construct functions comfortably.
- judge when it's a good time to put code together in a function.

Introduction

Functions make up everything in programming. No one likes doing the same thing over and over, so lumping together code you use over and over is a great way to DRY up your code.

Setup

- Create a new directory called **functional-javascript** and create a new HTML file, CSS file, and JavaScript file (*index.html*, *main.css*, and *main.js* respectively).
- In the html file, make sure you have the basic HTML structure:

```html
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>title</title>
    <link rel="stylesheet" href="main.css">
  </head>
  <body>

    <script src="main.js"></script>
  </body>
</html>
```

All your work will be done in the JavaScript file, you should have your chrome developer tools open to see the console logs. **cmd-shift-j** on macs, or **ctrl-shift-j** on windows/linux.

Instructions

1 - Calculator Function
Make a function that takes in a word, and two numbers. The supported words would be "add", "subtract", "multiply" & "divide". This function should perform the appropriate calculator action on the numbers and return the answer. Your calculator function should work for all of the following examples.

```
var answer = calculator("add", 4, 2)
console.log(answer) // 6
answer = calculator("subtract", 4, 2)
console.log(answer) // 2
answer = calculator("divide", 4, 2)
console.log(answer) // 2
answer = calculator("multiply", 4, 2)
console.log(answer) // 8
```

2 - Kardashian Quiz

Let's build a simple quiz program, this is the perfect use of a function to take care of the repetitive task of reading from a collection of questions. First off you should build a function that takes in a question and an answer then returns 1 or 0 depending on if the person got it right.

You can make use of the prompt function in JavaScript to get user input. Here's some starter code:

```
function ask(question, answer){
  //your code here



}

var point = ask("Is Kim the best?", "true")

console.log(point)


var questions = [
  "Was Kim born in 1985?",
  "Will Rob get out of jail?",
  "Does North seem happy?",
  "Kanye released 'Heartless' in 2008?"
  ]

var answers = [
  "yes",
  "no",
  "no",
  "yes"
  ]

//you code here
```

After making your function:
- create an array of questions, and an array of answers
- use a loop and those arrays to **ask** the user questions.
- keep a running total of the user's score.

- **console.log** the user's score after the loop.

Bonus:

If you got through The Kardashian quiz with your *sanity*, try to make your quiz more complex. Maybe make a version that tells you which Kardashian you are.

Completion Requirements

- Complete Workshop by end of allotted time limit.
- The calculator function works for addition, subtraction, division, and multiplication.
- The quiz program accurately keeps track of a running total of points for the user.
- Group review session with the instructor.