CPSC1520 – JavaScript 1 Exercise: Developer Console and Intro to JavaScript

Introduction

Functions are the building blocks to almost everything we're going to do in the course.
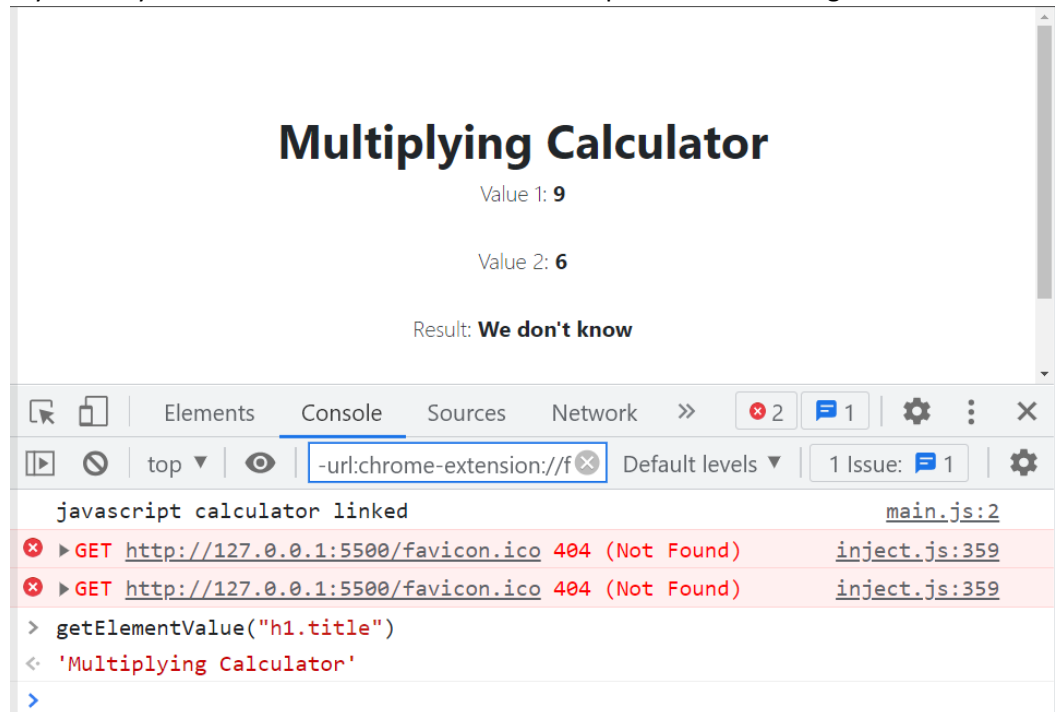
At their core functions are collection of statements that allow us to break down larger problems into smaller ones and allow us to reuse code.

In this exercise we're going to use a combination of functions that we create and JavaScript built in functions to create our "Multiplying Calculator" which will take two values, multiply them and update the dom with our result.

Functions

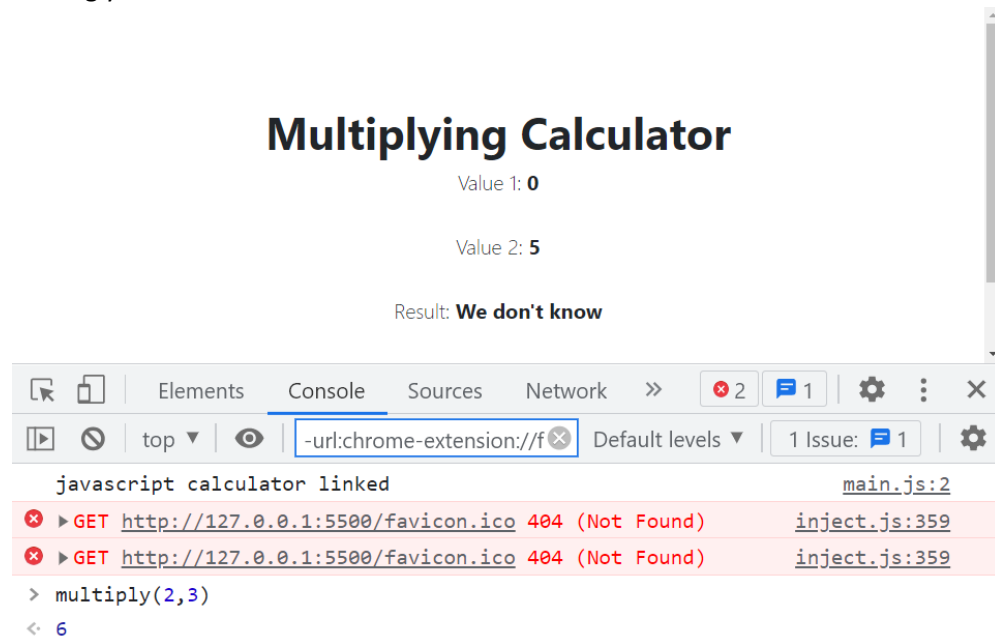### Exercise Step 1 – Create the "getElementValue" function.

1. Link your JavaScript file in your HTML, print a console.log that prints out "javascript calculator linked"
2. Create a function named "getElementValue" that will take one parameter named "selector"
3. The function should **return the innerText** of the element selected (using the "selector" parameter)
   a. If you test your element it should look like the output of the following

4. Once this is done you can move on to the next step.

Exercise Step 2 – Create a "multiply" function

1. Create a function named "multiply" that will take two parameters: "firstValue" and "secondValue".
   a. Note when you call this function you'll need to **pass in numbers not strings.**
2. The function will return both numbers multiplied together. If you're confused on how to do this and want some reference https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/Multiplication.
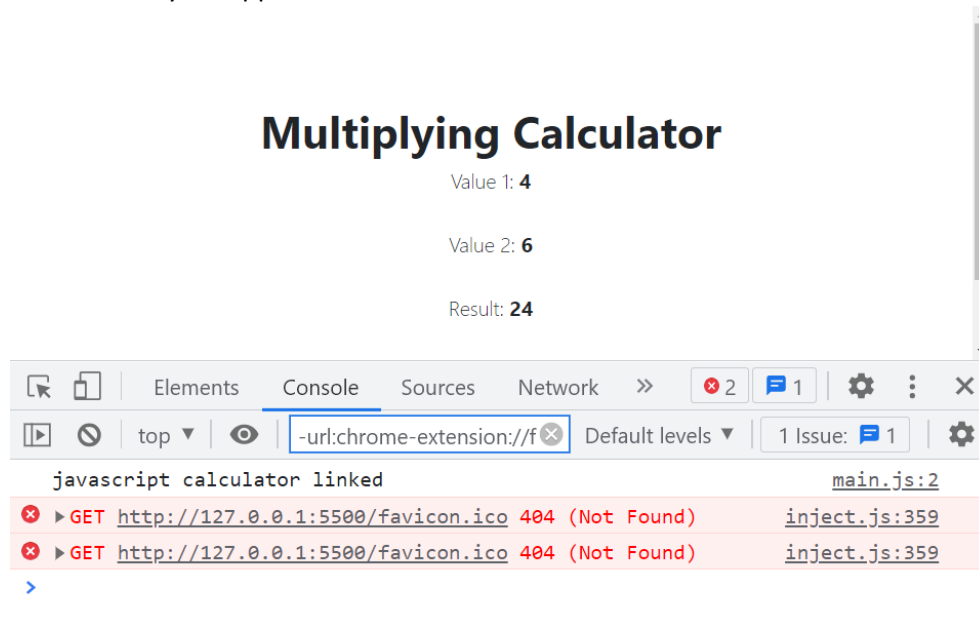   a. Testing your function should look like this.

3. Once this is done you can move on to the next step.

Exercise Step 3 – Updating the Result in the Dom

1. Create function named "updateResult" it won't take any parameters.
2. The first two things that we want to do is to get both number values that you see in the dom.
   a. Use the function "getElementValue" to get the values
3. Since these values from the dom are string values we're going to need to use the built in function "parseInt" to convert the string into a number. For reference (https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/parseInt)
4. After we both values are converted to numbers call the "multiply" function with the values from step 3 as the arguments to the function (you should have two arguments).
   a. Store the result of the function in a variable named "result"
5. Select the element that says "We don't know" and update the innerText to the new value.
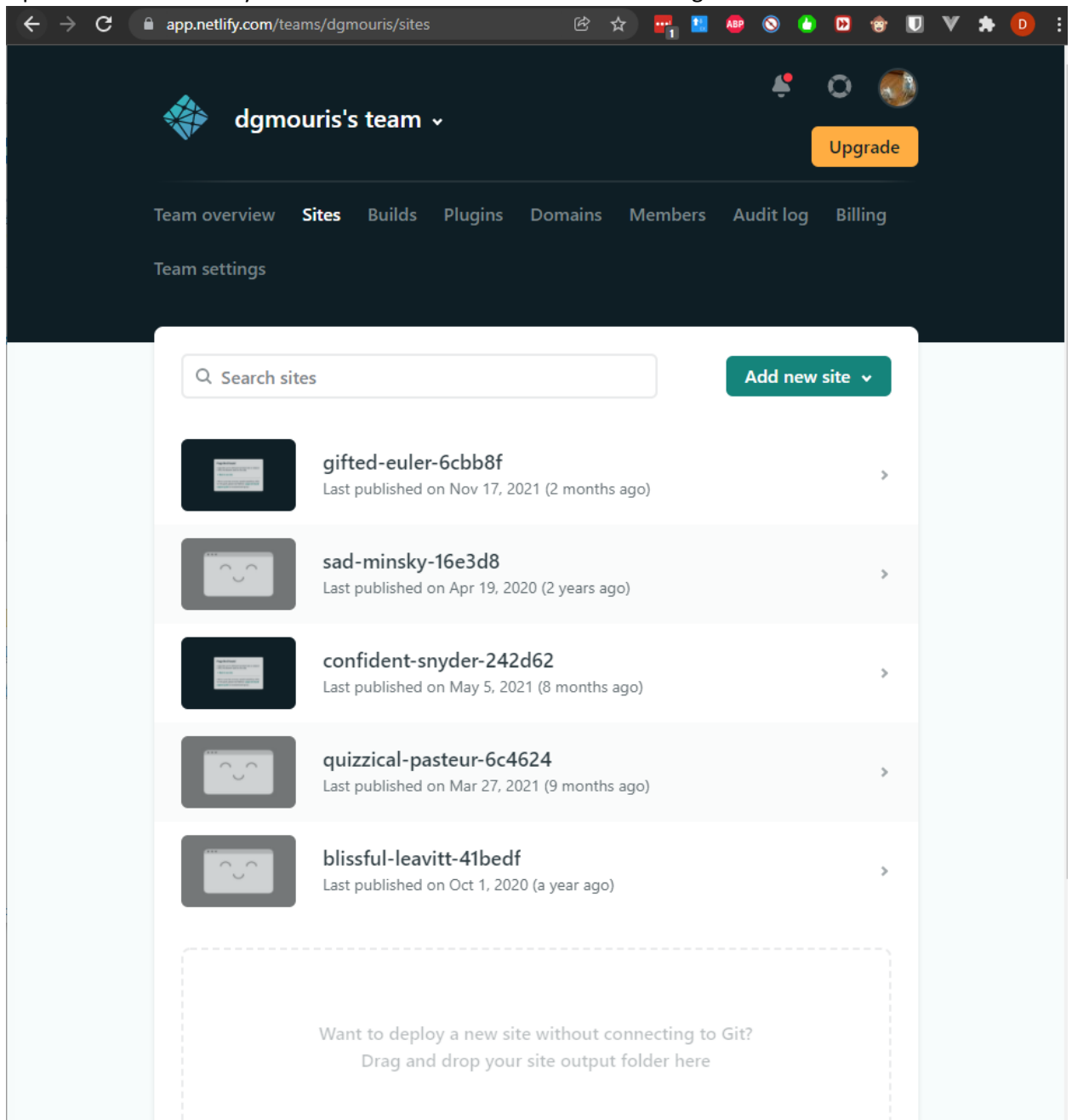
6. Call the "updateResult" function so that the result is updated every time you reload the page. The result of your application should look like this:

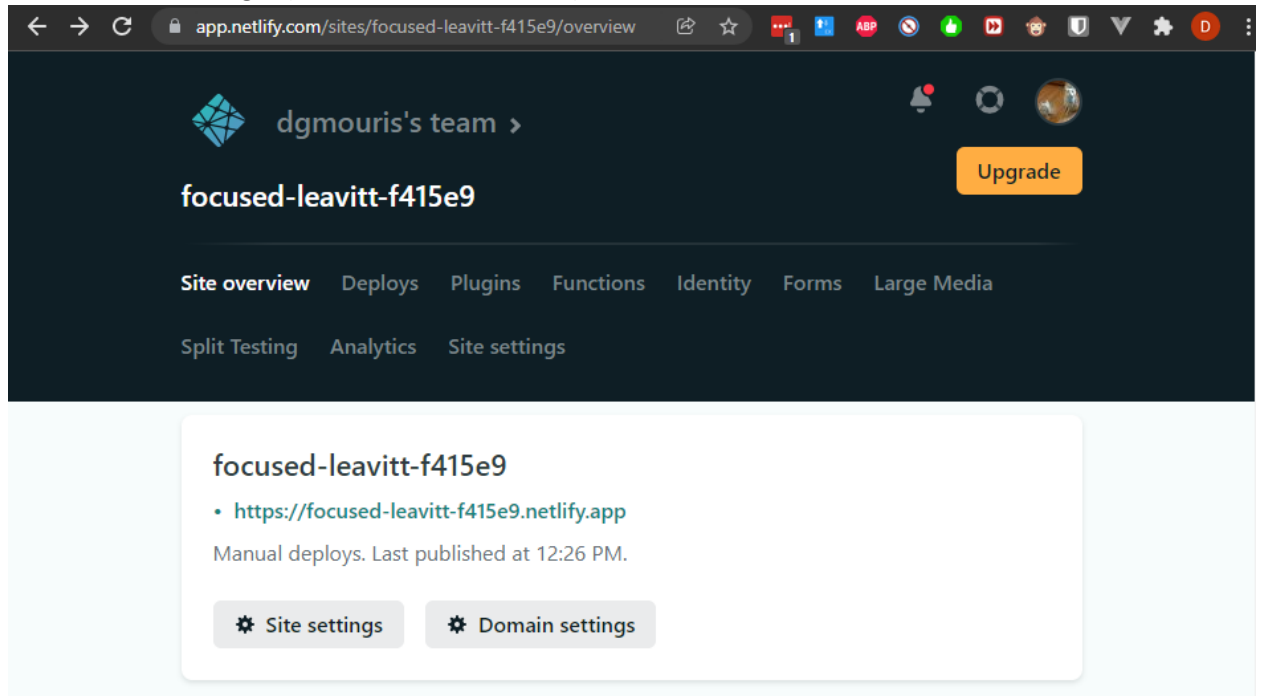

Exercise Step 4 – upload your site to Netlify

1. Sign in (or signup if you don't have an account) to https://netlify.com/

2. Open the "sites" tab in your browser it should look a little something like this.
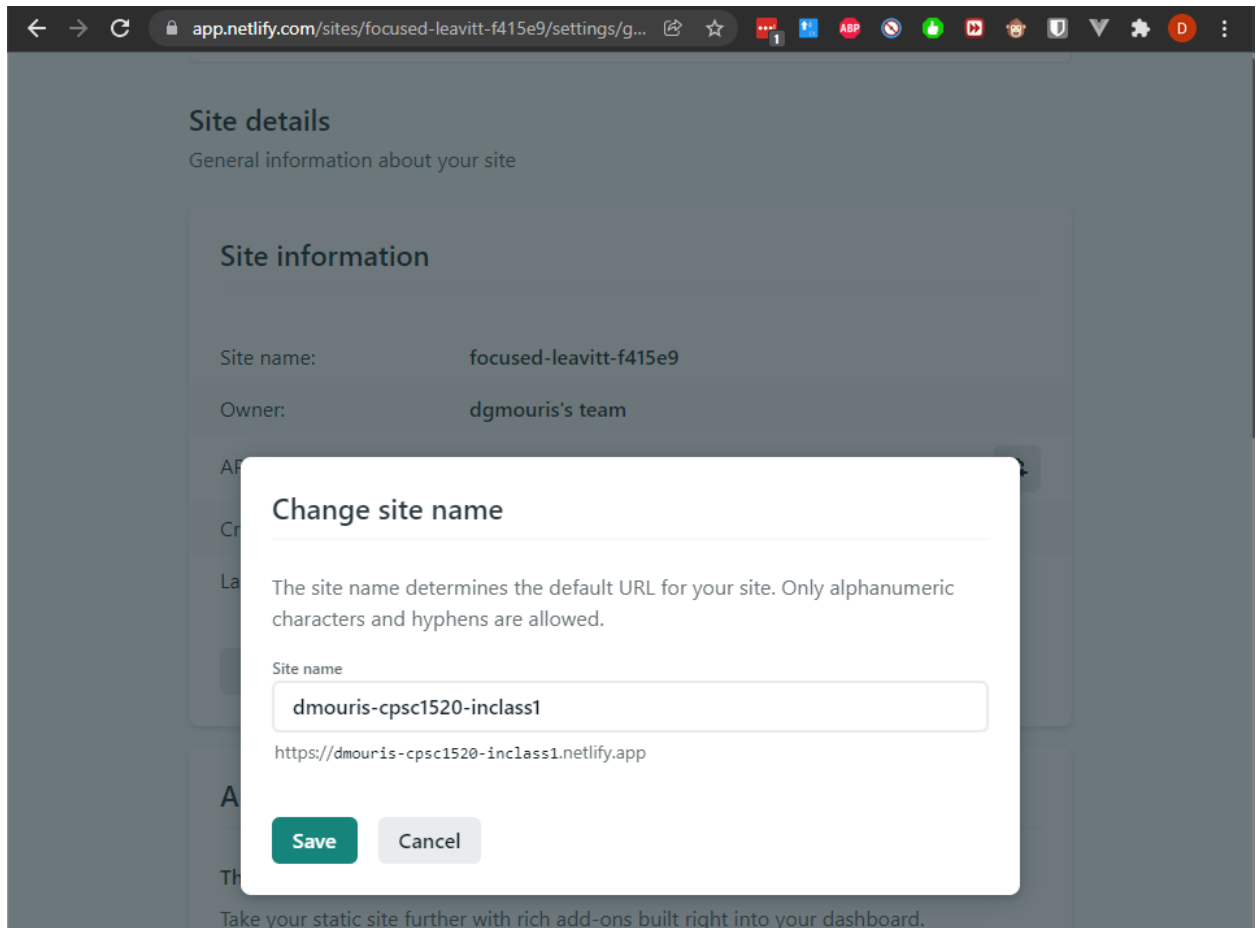

3. Drag and Drop the folder that your files are in into Netlify.

4. Click on "Site Settings" (the link is shown below)

5. Under site details change the site name to be **"<your-nait-username>-cpsc1520-inclass2"** like so.
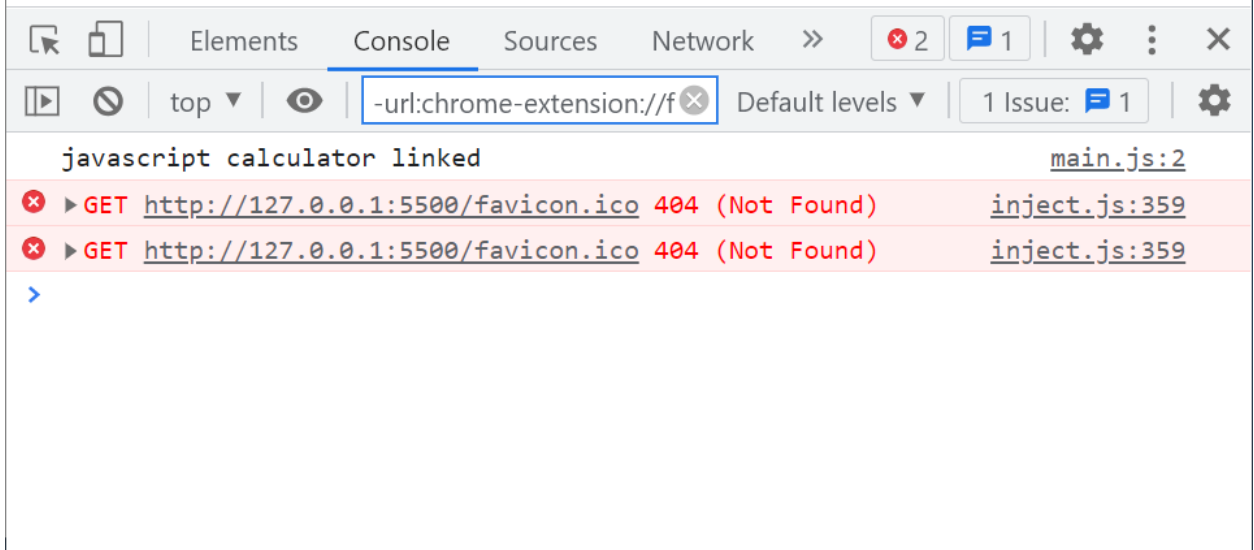

Grading

I'll give full marks if:

- The name of **your Netlify app is renamed to your name**.
- All of the functions have the correct names and parameters.
- What I see should be exactly what I see in the picture below (your numbers will be different).

Multiplying Calculator

Value 1: **0**

Value 2: **7**

Result: **0**

		Elements	Console	Sources	Network	»	⊗ 2	🗩 1	⚙	⋮	✕

▶ ⊘ | top ▼ | 👁 | -url:chrome-extension://f ⊗ | Default levels ▼ | 1 Issue: 🗩 1 | ⚙

```
  javascript calculator linked                                    main.js:2
⊗ ▶ GET http://127.0.0.1:5500/favicon.ico 404 (Not Found)        inject.js:359
⊗ ▶ GET http://127.0.0.1:5500/favicon.ico 404 (Not Found)        inject.js:359
>
```

If you don't follow the instructions you'll get a zero. There are no marks in between.