

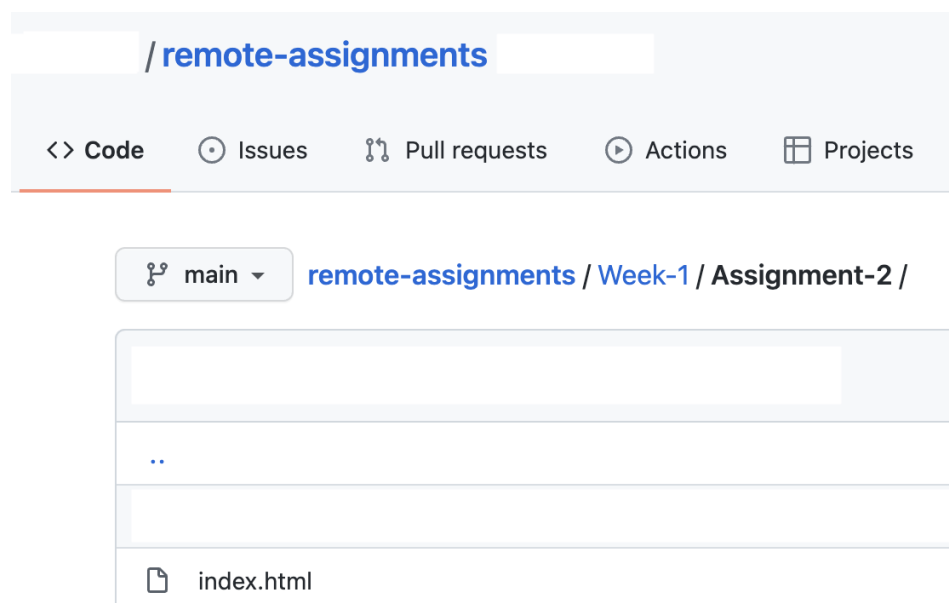
Batch #19 / Back-End Class

Remote Learning Assignment - Week 1

Assignment 1: Git and GitHub Page

Follow this [document](#) to host your own website on Github Page and take the steps below to hand in your assignments:

1. Create a new repository named remote-assignments in your GitHub account.
2. Create folders in this repository for assignments each week.
 - a. Create folder Week-n for week N. (N is an integer)
 - b. Under folder Week-n, create folder Assignment-M for all the files you like to submit in assignment M (M is an integer)
3. Manage and submit your work to GitHub by any Git tool.
4. For an example of Week-1, Assignment-2:
 - a. Your **Github Page link** should look like this:
<https://username.github.io/remote-assignments/Week-1/Assignment-2/>
 - b. Your **Github repository** should look like this:



Reminder: this assignment is very important for coming tasks in the next 3 weeks. You have to complete it anyway!

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Assignment 2: Page Layout in pure HTML/CSS

Apply any HTML, and CSS techniques without Bootstrap, jQuery, or other libraries to accomplish the following page layout requests. You can find a lot of elegant icons in Iconfinder (<https://www.iconfinder.com/>).

Basic Principle: You can use [Chrome Device Mode](#) to get quick layout tests in different screen widths.

Key Points:

1. Website Title / Logo in the navigator should align to the left.
2. Menu Items in the navigator should align to the right.
3. Total width of content boxes should be fixed in 1200px when screen width > 1200px.



Hint: Using flexbox for layout will help you a lot.

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Assignment 3: Javascript Basic

You will learn the basic skill of javascript next week, but it's a good time to try to overcome some simple problems on your own first. Your job is to complete the following two functions.

1. **countAandB**: count how many 'a' and 'b' letters are in the given input and return the total number.
2. **toNumber**: convert English letters to numbers, let 'a' to be 1, 'b' to be 2, and so on.

```
function countAandB(input) {  
  // your code here  
}  
  
function toNumber(input) {  
  // your code here  
}  
  
let input1 = ['a', 'b', 'c', 'a', 'c', 'a', 'c'];  
console.log(countAandB(input1)); // should print 4 (3 'a' letters  
and 1 'b' letter)  
console.log(toNumber(input1)); // should print [1, 2, 3, 1, 3, 1, 3]  
  
let input2 = ['e', 'd', 'c', 'd', 'e'];  
console.log(countAandB(input2)); // should print 0  
console.log(toNumber(input2)); // should print [5, 4, 3, 4, 5]
```

In both questions, you will only get 'a', 'b', 'c', 'd', or 'e' in the input array.

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Assignment 4: Google Developers Page (Advanced Optional)

Imitating web pages in the real world is a good way to improve your skills. Your work is to create a web page looking as like [Google Developers](#) as possible as you can!

Reminders:

1. Before you start coding, look at and play the target page carefully.
2. Take care of the layout first. If you feel it's not too hard, you can also try to add those dynamic functions like buttons and drop-down menus by javascript.
3. If you can, take care of all the details: sizes, spaces, colors, dimensions, etc. That's how you can really stand out from others.