

10/2/2020

CS303 Object Oriented and Functional Programming in Javascript

W2D5 Closures

**Part I:** Complete the following tasks from The JavaScript Language book. Try to answer them before looking at the solutions. You should work on each one for at least 10 – 20 minutes before looking at the solution. Write your own code for each of these in VSCode before looking at the answers.

In your github README file include a statement about whether you were able to complete all of the exercises on your own and whether you have questions or would like to hear an explanation on any of the solutions from the book. Also comment on something that was interesting or that you learned from the lab. Finally please note whether you had sufficient time to complete the lab and about how long it took.

Chapter: Advanced working with functions

Section: Closure

- Does a function pickup latest changes?
- Which variables are available?
- Are counters independent?
- Counter object
- Function in if
- Sum with closures
- Is variable visible?
- Filter through function
- Sort by field
- Army of functions

(EC) Section: Function object, NFE

- Set and decrease for counter

Draw a lexical environment diagram for the following code. (slide 21)

Follow model of previous page, show:

- global lexical environment (LE)
- LE for makeArmy()
- LE for LE of the while loop
- LE for army[0]

- What will `army[0]` alert?
- Can you fix the code?

How will the diagram change?