Software Developer Course Assessment

Quantitative Assessment Practice

Alexander Ewida

Course Name: Programming with JavaScript

Current Week: (2023/10/12)

## Introduction:

The purpose of this assessment is to help us understand how the class is doing in terms of the review material that we have covered during the previous couple of weeks. The only purpose of this assessment is for us to improve our approach to review and ensure that what we’re currently doing is an effective strategy. Completion of this assessment is mandatory - if you don’t submit a solution, it will be marked as incomplete. If you do submit a solution, it will be marked as complete, as you will receive full marks.

Again, the goal here is to help you all in the best way that we can, so please do be honest when answering the questions related to how long it took, which resources you used, etc. And please ensure that you do your own work – don't just copy off a friend to get it done, earnestly do your best with it. If you can’t get it completely working, give us what you have. While it will be graded, the grade will not count against you, it’s just a way for us to see where everybody is, and to know which concepts, if any, we, as a class, may be struggling with.

Deadline: You will have until the end of the day on **Sunday October 22,2023 (4:00pm)** to submit your assessment solutions. Please ensure you answer all the questions outlined in the instructions portion of this document as well in your submission.

Instructions: Your name: Alexander Ewida

You are allowed to complete the assessment problems below in whatever way you can but please answer the following questions/points as part of your submission:

1. How many hours did it take you to complete this assessment? (Please keep try to keep track of how many hours you have spent working on each individual part of this assessment as best you can - an estimation is fine; we just want a rough idea.)

Answer: [October 14: I started working on Problem 1 at 5pm. First, I had to read notes from 3 websites and watch the expressions part of the JavaScript-20231004\_130335-Meeting Recording for about 10 minutes. It took me about 20 minutes to finish problem 1. For Problem 2, I spend about 20 to 25 minutes to finish it.]

Answer: [October 15: I started working on Problem 3 at 7pm. Reading through the websites on that topic and building the solution for that problem took me about a half-hour to finish.

Answer: [October 16: First, at 10am in the morning, I watched the Programming Concepts with JavaScript-20231004\_130335-Meeting Recording from our October 4 class. The recording was about 50 minutes. I started working on Problem 4 at 12pm and found 3 websites to help. I took me about 30 minutes to finish writing the solution while reading the 3 websites. I started working on problem 5 at 3pm. It took me about an hour to find the answer because I had to watch some class recordings along with the one website I found for this problem. I started working on problem 6 at 8pm. First, I read through the 2 websites I found for 20 minutes and then it took me about 20 minutes for me to write my solution.

Answer: [October 17: In the morning, I went to Starbucks to work on my project from 9:30am til 12:30pm. My classmates were there too. While there, I found out that there were some things in my solutions for problems 1-4 that needed to be fixed. When I got home, I took a break. I started working on Problem 5 at 8:00 and it took me about 45 minutes to finish it.

Answer: [October 18: At 5:30pm, I realized I had to make many changes to the solution for problem 6. It took me about an hour to finish fixing it. I started working on problem 7 at 8pm. It took me about 40 minutes to finish it.

Answer: [October 19: I started working on problem Problem 8, Part 1 at 2:30 pm. It took me about an hour to finish this tough question. I started working on Problem 9 Part 1 at 6pm. It took me 30 to 35 minutes to finish it. I started working on Problem 9 Part 2 at 7:30pm, and just took about 20 minutes.

Answer: [October 20: I started working on problem Problem 10 at

1. What online resources you have used? (My lectures, YouTube, Stack overflow etc.)

Answer: [October 14: The websites I found that helped me with Problem 1 are:

* <https://www.w3resource.com/javascript-exercises/fundamental/javascript-fundamental-exercise-120.php>
* <https://www.tutorialspoint.com/converting-strings-to-snake-case-in-javascript>
* <https://javascriptf1.com/snippet/convert-string-to-snake-case-in-javascript>

[October 14: The websites I found that helped me with Problem 2 are:

* <https://javascript.plainenglish.io/javascript-create-video-element-ded3d63367c4>

[October 15: The websites I found that helped me with Problem 3 are:

* <https://stackoverflow.com/questions/25060186/how-to-extract-date-from-string-using-javascript>
* <https://www.geeksforgeeks.org/how-to-extract-date-from-a-string-in-dd-mmm-yyyy-format-in-javascript/>
* <https://tutorial.eyehunts.com/js/javascript-extract-date-from-string-regex-extract-date-pattern/>

[October 16: The websites I found that helped me with Problem 4 are:

* <https://www.turing.com/kb/converting-string-to-date-in-js>
* <https://codingbeautydev.com/blog/javascript-convert-string-to-date-object/>
* <https://askjavascript.com/how-to-convert-date-to-string-in-javascript/>

[October 16: The websites I found that helped me with Problem 5 are:

* <https://towardsdatascience.com/geotiff-coordinate-querying-with-javascript-5e6caaaf88cf>

[October 16: The websites I found that helped me with Problem 6 are:

* <https://stackoverflow.com/questions/59569366/transforming-a-string-of-coordinate-pairs-into-an-array-of-objects>
* <https://javascript.info/coordinates>

[October 17: While fixing Problems 1-5, I checked the same websites I found before.

[October 18: The websites I found that helped me with Problem 6 are:

* <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Text_formatting>
* <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/normalize>

[October 18: The websites I found that helped me with Problem 7 are:

* <https://bobbyhadz.com/blog/javascript-get-mime-type-of-file>

[October 19: The websites I found that helped me with Problem 8 and 9 are:

* <https://www.w3schools.com/js/>
* <https://sentry.io/answers/how-can-i-convert-a-string-to-a-boolean-in-javascript/#:~:text=You%20can%20use%20the%20Boolean,truthy%20%2C%20it%20will%20return%20true%20>.
* <https://www.freecodecamp.org/news/what-is-a-pure-function-in-javascript-acb887375dfe/>

1. Did you need to ask any of your friends in solving the problems. (If yes, please mention name of the friend. They must be amongst your class fellows.)

Answer: [On October 17, I went to Starbucks with my friends and classmates, Mohamed Maghrebi, and Manny Nwokedi. We were there to work together on our projects. We each worked on our own projects, but gave each other some tips.

1. Did you need to ask questions to any of your instructors? If so, how many questions did you ask (or how many help sessions did you require)?

Answer: [On October 17, myself, Manny and Mohamed went to the Convention Centre to speak with Noman Atique. We had a good conversation with him and before leaving I showed him my solutions for Problems 1,2,3, and 4 of the assignment and he said they looked great.

1. Rate (subjectively) the difficulty of Making this all! from your own perspective, and whether you feel confident that you can solve a similar but different problem requiring some of the same techniques in the future now that you’ve completed this one.

## Objective:

Strings are one of the most important components of any programming language. JavaScript is no exception. We have discussed several string functions during our sessions along with the **video recording of my lecture on regular expressions(please have a look at it if not already 😊)**, to give you a real hands-on experience and mastery on strings in general this QAP is planned. Make use of regular expressions smartly to solve different questions.

## Requirements:

Please see the attached file “qap2.js”, it contains all the problem descriptions along with the empty structure of all functions. You need to replace comments in all functions with your code by keeping the requirements of the question in mind.

When you are done with the solutions, make one folder “alan\_qap2” (in case your first name is Alan 😊 zebra finch), and put this qap2.js along with this document after answering all the questions given above (use the green color for your answers as given example)