

IFQ714 Introduction to JavaScript Programming. Assignment 1: Programming exercises

Name

Date

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Introduction

This report will provide both an overview and rationale for the various programming approaches that were adopted in order to complete all five steps of the JavaScript programming exercises as set out by this assignment.

Step 1: Loading JSON data

How you loaded your data...

Step 2: Basic Functions

A total of 5 basic functions were created in order to complete the programming exercises.

Function 1: Explain how you built the function.

Function 2:

Step 3: Analysis

All analyses were attempted and completed using the `##` functions.

The final results from `.min`, `.max`, and the custom average function were logged to the console to display the results:

Descriptive statistics for orbit values of NEOs where 'orbit_class' is 'Apollo' and 'pha' is true.

(index)	h_mag	moid_au	q_au_1	q_au_2	period_yr	i_deg
maximum	21.8	0.049	1.01	5.03	5.07	48.02
minimum	18	0.0002	0.48	1.08	1	0.82
average	20.54	0.02	0.89	2.78	2.59	18.22

One challenge I encountered was... Another issue I had with ...was ...

I tried ...method to tackle this...

Step 4: Changing JSON format

The original Data was used to extract all unique 'orbit_class' categories. A new `##` function was used to achieve this.

Step 5: Unit tests

The `###` function was tested with multiple inputs using the Javascript testing framework Jest. Results from the tests are provided below.

Conclusion

Through this project, I ...

Reference

[1]

[2]