GPA Calculator Console Application

Scope of Work

Create an application that takes a user-supplied grade and calculate a GPA that is returned in the browser’s developer console.

Deliverables

A boilerplate HTML file has been included in the lab folder. Write your script within a script tag in this HTML file and submit this file to the dropbox. Save the file as yourlastname\_yourfirstname\_module01lab.html.

Requirements

Use a map to map your grade points to your letter grades.

“A” = 4

“B” = 3

“C” = 2

“D” = 1

“F” = 0

Use the prompt function to collect user input.

Use a while loop to ensure input is taken until the user enters “done”.

If the user enters invalid input, warn them the input is invalid and continue the loop. You can use the alert function for this. You can also use the Map.get() and the Map.has() function to validate input.

Make sure to use let and const appropriately. You should not use var anywhere.

Log the GPA to the console.

Advice

A good approach would be to implement your map. Run the input loop. Check for “done”, then check for valid input, if the input is valid add the grade to an array. You can use Map.get() to get the value associated with the letter grade, rather than the letter grade. After taking user input, you can loop through the array to do the math. Make sure you use user friendly messaging throughout, including in the console output. You can achieve this with string concatenation.