Week 4 Coding Assignment

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Question 1 asks us to create an array of numbers.

* Part A asks us to subtract the first value from the last value programmatically
* Using the .length method to find the last index we get 93 – 3 = 90
* Part B asks to add a new value to the array and repeat part a
* Using the .push method I added 55 to the array, 55 – 3 = 52
* Part C asks us to loop through the array and average the values.
* I used a for loop to iterate through, adding all the values to a variable and dividing that sum by the .length of the array to return an average of 31.6

Question 2 asks us to create an array of names

* Part A asks us to loop through the array and calculate the average number of letters per name
* I used a for loop and added the length of each element to a variable and divided that by the length of the array to get an average of 3.83 letters per name
* Part B asked us to loop through the array and create a string of all the values separated by a space.
* I used a for loop to iterate and add all the values plus a space to an empty string variable.

Question 3. I access the last value of an array by using the .length method and subtracting 1 to get the last index due to arrays being zero indexed.

Question 4. I access the first element of an array buy using the array’s zero index position.

Question 5 asked us to create an array to store the length of names in the previously created names array. Using a for loop I pushed the length of each element into a new array as shown.

Question 6 asked us to sum up the lengths of all the names in the names array, using a for loop to iterate and add all the lengths into a variable we get 23.

Question 7 asked us to write a function that takes in 2 parameters, word and N. Then to print out the Word, N times. I used a for loop to iterate N times and add the Word to a blank string variable, giving us the output of HelloHelloHello.

Question 8 asks us to create a function givin the parameters of firstname and lastname and printing out the Full name. I created a simple arrow function that takes both names and outputs them with a template literal sepereated by a space. I used my own name Patrick Corcoran.

Question 9. Asked us to write a function that takes an array of numbers and returns true if the sum is larger than 100. I used a for loop to iterate and add the values to a variable, used an if statement to check if it was over 100 or not. Using the Ages array returns true while using name lengths returns false.

Question 10 as us to write a function that takes and array and returns a an average of all the elements. Just like in question 1 C: I used a for loop to iterate through, adding all the values to a variable and dividing that sum by the .length of the array to return an average of 31.6.

Question 11 asks us to write a function that takes in two arrays and compares the averages and returns true if the average of the first array is higher. I used the arrayAverage function I created in question 10 and put the average of each into a temporary variable and compared them with an if statement. nameLengths and ages returns false since ages is much larger, swapping them returns true

Question 12 asks us to create a function willBuyDrink that will return true if it is both hot outside and we have more than 10.50 money in our pocket. I used an if statement do determine if both parameters pass the check it will return true, otherwise return false.

Question 13. I created my own function to determine if my kids can play video games. It is a very common question that I get after school every day, but they do know that there are certain responisbilities that need to be met before they are allowed. I ask 4 user inputs if they have performed said tasks and stored the answers in an array. I wanted to use an array function that I had not before so I chose to go with .every(). It evaluates every element in the array and returns true only if all elements conform to the check I created. If all the user prompts were answered yes you can play video games!