Lab 16 - Arrays

Objectives

Writing Javascript functions that make use of arrays

What to do in Lab?

- 1. Log in to the computer. If you are reading this, you must have done this already.
- 2. Create CPSC1045\Lab16 folder
- 3. Download the file Lab16.zip from D2L to your system. Unzip the contents into your Lab16 folder.
- 4. Open the included HTML document named **lab16.html** in Google Chrome by either double clicking (if Chrome is the default browser) or by right clicking on it in your file explorer and then selecting Open With -> Google Chrome. The document looks as follows:

Lab 16 – Arrays

.			
Enter any color to put in th	e array		Add to Array
Your array contents a	re:		
Check if a color exists	in the arra	ıy:	
	Check Color		
That color is at index:			

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5. Now open the **lab16.js** file using your favorite HTML editor such as <u>Brackets</u> or <u>VS Code</u>, so that you can write the code. You need to work with only this file.

The Task (10 marks)

- 6. Write the JavaScript to complete the following steps:
 - a) Create an empty, global array that will be used to store colors.
 - b) Create an onclick event handler for the Add to Array button. Every time the button is pressed, the function should get the value from the text field and push it into the color array.

- c) Create a function that displays the colors contained in the array on to the HTML page. This display function should be called every time a color is added to the array.
- d) Create an onclick event handler for the Check Color button. Every time this button is pressed, the function should get the color value from the second text field, and find the index at which that color occurs in the array. This index should then be displayed to the HTML page. The sample output after each of several steps is shown below:

Lab 16 – Arrays		Lab 16 – Arrays		
Enter any color to put in the array red	Add to Array	Enter any color to put in the array blue	Add to Array	
Your array contents are:		Your array contents are:		
red		red,blue		
Check if a color exists in the array:		Check if a color exists in the array:		
Check Color		Check Color		
That color is at index:		That color is at index:		
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Lab 16 – Arrays		Lab 16 – Arrays		
Enter any color to put in the array green	Add to Array	Enter any color to put in the array yellow	Add to Array	
Your array contents are:		Your array contents are:		
red,blue,green		red,blue,green,yellow		
Check if a color exists in the array:		Check if a color exists in the array:		
Check Color		Check Color		
That color is at index:		That color is at index:		
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Lab 16 – Arrays		Lab 16 – Arrays		
Enter any color to put in the array yellow	Add to Array	Enter any color to put in the arrayyellow	Add to Array	
Your array contents are:		Your array contents are:		
red,blue,green,yellow		red,blue,green,yellow		
Check if a color exists in the array:		Check if a color exists in the array:		
blue Check Color		green Check Color		
That color is at index: 1		That color is at index: 2		
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Submission: What to hand in

Zip the folder Lab16 which contains your source code (the edited file **lab16.html** and the **lab16.js** file you created) and upload it to D2L.

Submission: When to hand in

At the end of the lab period.