Worksheet 9: Arrays

1. Create the following web page:

Working with Arrays

We are going to work with an array having a length of: 7

Enter the item's index to view the value [   ] [Fetch!]

a) You need to create an array as a **global variable**.
   Example Array:

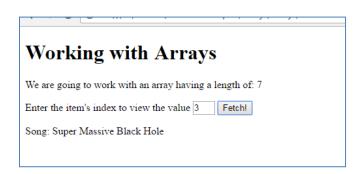| 0	1	2	3	4	5	6
'Chasing Cars'	'Human'	'Mr. Brightside'	'Super Massive Black Hole'	'Twisted Transistor'	'Yellow'	'Seven Nation Army'

b) A function needs to be created to handle all initial functionalities. Therefore, this function needs to be called on the **onload** event.
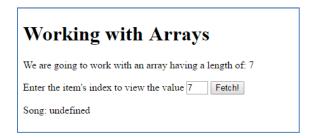
   Firstly, this function needs to display the array's length on screen (as shown above).
   NB: The length should be calculated and you should not write it yourself (should not be hardcoded).

c) You need to allow the user to enter the index for the desired item.
   Once the user clicks on the button *Fetch*, the corresponding item should be displayed on screen:

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We are going to work with an array having a length of: 7

Enter the item's index to view the value [3] [Fetch!]

Song: Super Massive Black Hole

d) If the user inputs an index which is out of range, the following would occur:

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We are going to work with an array having a length of: 7

Enter the item's index to view the value 7 [Fetch!]

Song: undefined

e) Handle this issue by displaying an appropriate message to the user:

Working with Arrays

We are going to work with an array having a length of: 7

Enter the item's index to view the value 7 [Fetch!]

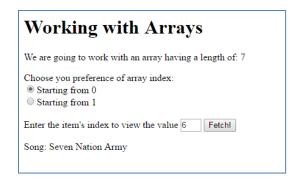The item you are looking for is not in the list, kindly enter a number between 0 and 6

f) As you may have notice, the font size and colour changed. You should implement this in your JavaScript file.

g) Once the user selects a proper index, the styling should be reset:

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We are going to work with an array having a length of: 7

Enter the item's index to view the value 4 [Fetch!]

Song: Twisted Transistor
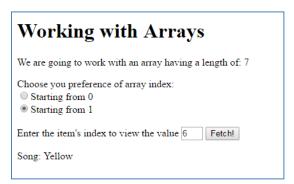
2. Change the previous webpage to give the user a choice between an index starting from 0 or an index starting from 1:

Working with Arrays
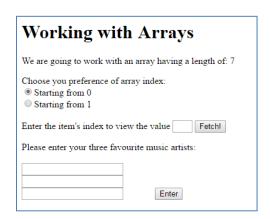
We are going to work with an array having a length of: 7

Choose you preference of array index:
◉ Starting from 0
○ Starting from 1

Enter the item's index to view the value [   ] [Fetch!]

a) Depending on the user's choice, the necessary functions should be changed accordingly

Working with Arrays

We are going to work with an array having a length of: 7

Choose you preference of array index:
- ○ Starting from 0
- ○ Starting from 1

Enter the item's index to view the value 6   Fetch!

Song: Seven Nation Army

Working with Arrays

We are going to work with an array having a length of: 7

Choose you preference of array index:
- ○ Starting from 0
- ● Starting from 1

Enter the item's index to view the value 6   Fetch!

Song: Yellow

3. Edit the above webpage so as to allow the user to enter his/her 3 favourite artists and store them in an array:

Working with Arrays

We are going to work with an array having a length of: 7

Choose you preference of array index:
- ● Starting from 0
- ○ Starting from 1

Enter the item's index to view the value   Fetch!

Please enter your three favourite music artists:

[   ]
[   ]
[   ]   Enter

a) Once the user presses on the *Enter* button, a function should extract all three entered artists and store them in an array

b) The event handling method (linked to the *Enter* button) should also display the entered artists using the *join* built-in method:

Please enter your three favourite music artists:

Muse
Ed Sheeran
Sia

Enter

You entered the following artists: Muse and Ed Sheeran and Sia

c) Now you should sort the given list in alphabetical order:

Muse
Ed Sheeran
Sia

Enter

You entered the following artists in this order:
Muse and Ed Sheeran and Sia

And this is your sorted list:
Ed Sheeran and Muse and Sia