

**MIT Art Design and Technology University**  
**MIT School of Computing, Pune**  
**Department of Computer Science and Engineering**  
**Third Year B. Tech Academic Year 2022-2023. (SEM-I)**  
**Subject: Web Technology Laboratory**

## **Assignment 4-D**

**Assignment Title:** Create an array using JavaScript and display the occurrences of a specific character [For example; arr = ['a', 'b', 'a', 'c', 'z'] Output should be occurrences of a is 2]

**Aim:** Accept array from user and find number of occurrences of the characters

**Objectives:**

1. Understanding working with JS user accepting and array manipulation
2. Understand the different type of JS methods

**Outcomes:**

Upon Completion of the assignment the students will be able to

1. Create User accepting webapps
2. Understand relationship between JS, HTML and CSS

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**Course Name:** Web Technology Lab

## HTML :

```
<!DOCTYPE html>

<html>

<head>

    <title>Array character Occurence</title>

</head>

<body>

<script src=array.js></script>

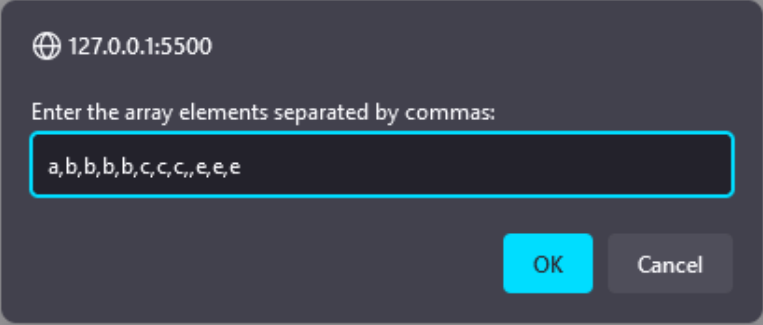
</body>

</html>
```

JS :

```
let arrString = prompt("Enter the array elements  
separated by commas:");  
  
let arr = arrString.split(",");  
  
let charToCount = prompt("Enter the character to  
count:");  
  
let count = 0;  
  
for (let i = 0; i < arr.length; i++) {  
  
    if (arr[i] === charToCount) {  
  
        count++;  
  
    }  
  
}  
  
alert(`Occurrences of ${charToCount} is ${count}`);
```

## Output :



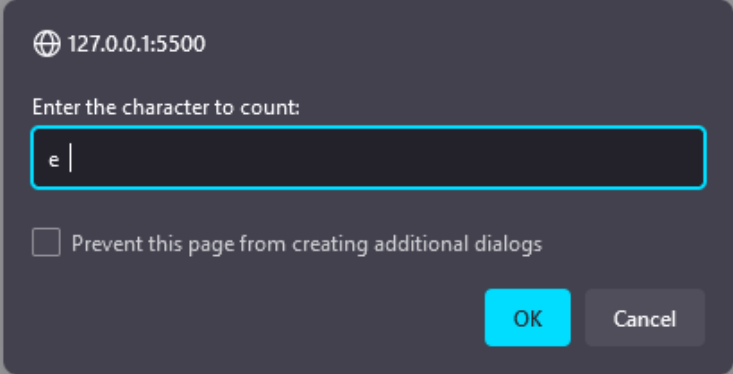
127.0.0.1:5500

Enter the array elements separated by commas:

a,b,b,b,b,c,c,c,,e,e,e

OK Cancel

A dark-themed dialog box with a title bar showing a globe icon and the address '127.0.0.1:5500'. The main text asks to 'Enter the array elements separated by commas:'. Below this is a text input field containing the string 'a,b,b,b,b,c,c,c,,e,e,e'. At the bottom right are two buttons: 'OK' (highlighted in red) and 'Cancel'.



127.0.0.1:5500

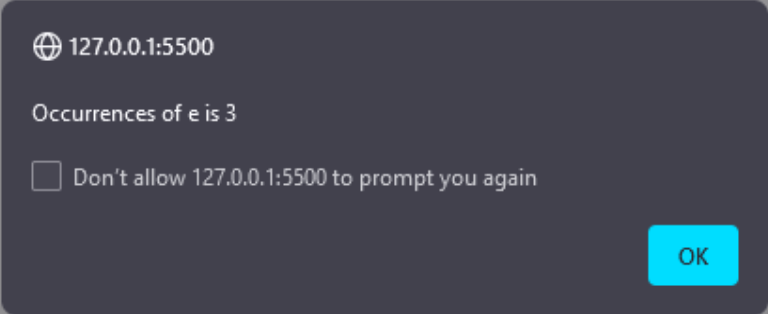
Enter the character to count:

e |

☐ Prevent this page from creating additional dialogs

OK Cancel

A dark-themed dialog box with a title bar showing a globe icon and the address '127.0.0.1:5500'. The main text asks to 'Enter the character to count:'. Below this is a text input field containing the character 'e' followed by a cursor. At the bottom left is a checkbox labeled 'Prevent this page from creating additional dialogs'. At the bottom right are two buttons: 'OK' (highlighted in red) and 'Cancel'.



127.0.0.1:5500

Occurrences of e is 3

☐ Don't allow 127.0.0.1:5500 to prompt you again

OK

A dark-themed dialog box with a title bar showing a globe icon and the address '127.0.0.1:5500'. The main text displays the result 'Occurrences of e is 3'. At the bottom left is a checkbox labeled 'Don't allow 127.0.0.1:5500 to prompt you again'. At the bottom right is a single red button labeled 'OK'.

## Explanation :

This is a HTML and JavaScript code that creates a web page that counts the occurrences of a character in an array. The code does the following steps:

- It prompts the user to enter the array elements separated by commas, and stores the input as a string in the `arrString` variable.
- It splits the `arrString` into an array of characters using the `split()` method, and assigns the result to the `arr` variable.
- It prompts the user to enter the character to count, and stores the input in the `charToCount` variable.
- It initializes a `count` variable to zero, and then loops through each element of the `arr` array using a `for` loop.
- Inside the loop, it checks if the current element is equal to the `charToCount` using the `===` operator, and if so, it increments the `count` by one using the `++` operator.
- After the loop ends, it displays an alert message to the user that shows the number of occurrences of the `charToCount` in the `arr` array using template literals.