

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-B

Assignment Title: Declare a Javascript String array of colors say colors = ["Red", "Green", "Blue"] Accept a value from the user and add it to the array if the value is not present in the array.

Aim: Take user input and manipulate arrays

Objectives:

1. To understand how JS arrays works
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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HTML :

```
<!DOCTYPE html>

<head>

    <link rel="add-color-style.css" >

<title>Add Color</title>

</head>

<body>

<script src= add-color.js></script>

</body>

</html>
```

JS :

```
const colors = ['Red', 'Green', 'Blue'];

const newColor = prompt('Enter a new color:');

if (!colors.includes(newColor)) {

    colors.push(newColor);

    console.log(`Added ${newColor} to the array.`);

} else {

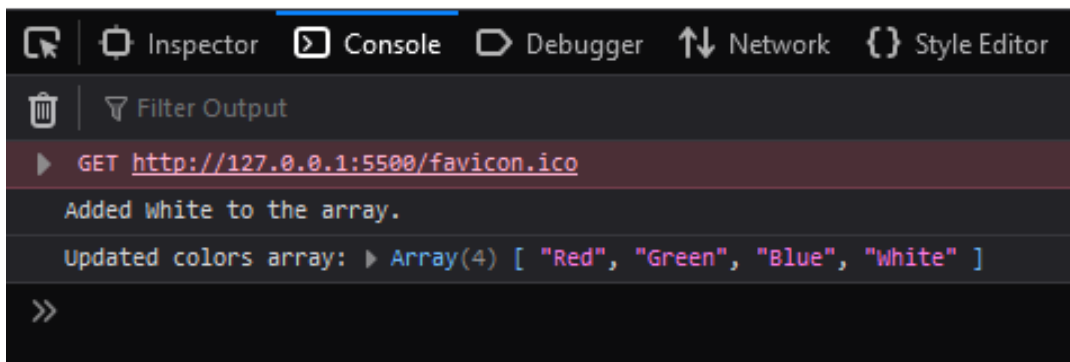
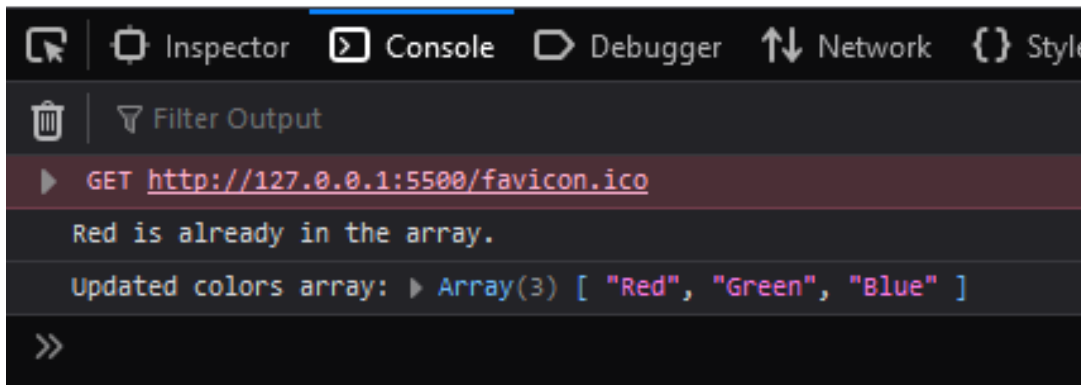
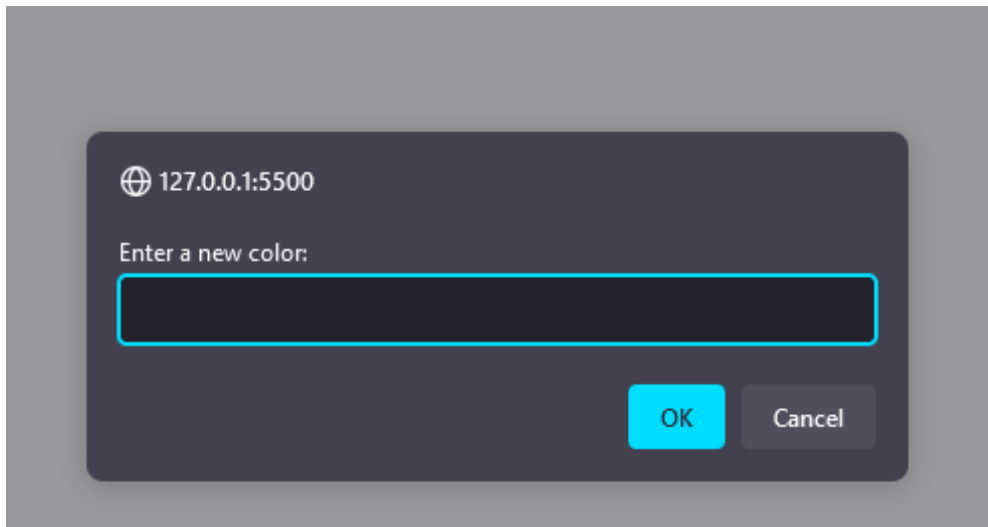
    console.log(`${newColor} is already in the array.`);

}

console.log('Updated colors array:', colors);

// window.alert('Updated colors array:', colors);
```

Output :



Explanation :

This is a HTML and JavaScript code that creates a web page that adds a new color to an array of colors. The code does the following steps:

- It defines an array of colors with three elements: 'Red', 'Green', and 'Blue', and assigns it to the `colors` variable.
- It prompts the user to enter a new color, and stores the input in the `newColor` variable.
- It checks if the `colors` array already includes the `newColor` using the `includes()` method, and if not, it adds the `newColor` to the end of the array using the `push()` method. It also logs a message to the console that says `Added ${newColor} to the array.` using template literals.
- If the `colors` array already includes the `newColor`, it logs a message to the console that says `${newColor} is already in the array.` using template literals.
- It logs the updated `colors` array to the console with a message that says `Updated colors array:` using concatenation.