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-C

Assignment Title: Write a JavaScript code to apply font color and background color to Heading from the dropdown, if the font color and background color is same no changes should be reflected.

Aim: Create frontend with dropdowns that changes color font and background of the heading

Objectives:
1. Understanding working with JS user accepting
2. Understand the different type of JS methods and working with CSS and HTML

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 :

```html
<!DOCTYPE html>

<head>

    <link rel="stylesheet">

    <title>Dropdown Changer</title>

</head>

<body>

  </head>

  <body>

    <h1 id="heading">Heading</h1>



    <label for="fontColor">Font Color:</label>

    <select id="fontColor" onchange="applyColors()">

      <option value="black">Black</option>
```

```html
        <option value="red">Red</option>

        <option value="green">Green</option>

        <option value="blue">Blue</option>

    </select>


    <label for="backgroundColor">Background
Color:</label>

    <select id="backgroundColor"
onchange="applyColors()">

        <option value="white">White</option>

        <option value="yellow">Yellow</option>

        <option value="pink">Pink</option>

        <option value="orange">Orange</option>

    </select>


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

</body>

</html>
```
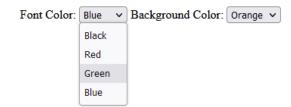
JS :

```javascript
function applyColors() {

    let fontColor =
document.getElementById("fontColor").value;

    let backgroundColor =
document.getElementById("backgroundColor").value;

    let heading = document.getElementById("heading");

    if (fontColor !== backgroundColor) {

      heading.style.color = fontColor;

      heading.style.backgroundColor = backgroundColor;

    }

  }
```

Output :

Explanation :

This is a HTML and JavaScript code that creates a web page with a heading and two dropdown menus. The dropdown menus allow the user to change the font color and the background color of the heading. The function **applyColors()** is called whenever the user selects a different option from either of the dropdown menus. The function gets the values of the selected options and assigns them to the **fontColor** and **backgroundColor** variables. Then, it checks if the font color and the background color are different, and if so, it changes the style of the heading element accordingly. This way, the user can customize the appearance of the heading by choosing different combinations of colors.