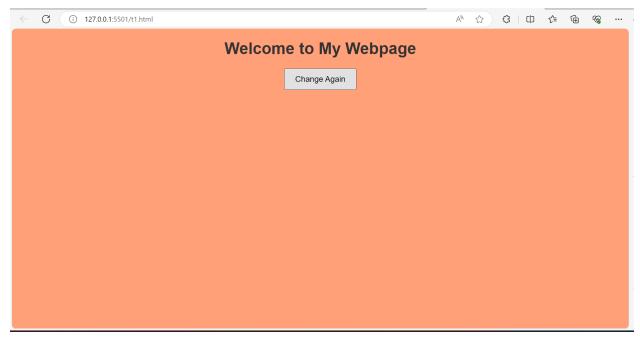
Web -D S Name – Himanshu jayant Roll No. - 22it3015

T1. Create a webpage that has a heading and a button. Write a script to change the background color and text when the button is clicked.

```
<!DOCTYPE html>
<html lang="en">
<meta charset="UTF-8">
title>Change Background Color and Text</title>
   font-family: Arial, sans-serif;
   text-align: center;
   background-color: #f0f0f0;
   color: #333;
 #changeButton {
   padding: 10px 20px;
<h1 id="heading">Welcome to My Webpage</h1>
<button id="changeButton">Change Background Color and Text</button>
 function changeStyles() {
   var body = document.body;
   var heading = document.getElementById("heading");
```

```
'#ffa07a'];
   var randomColor = colors[Math.floor(Math.random() * colors.length)];
   body.style.backgroundColor = randomColor;
   var textColor = getBrightness(randomColor) > 128 ? '#333' : '#ffff';
   heading.style.color = textColor;
   document.getElementById("changeButton").innerText = "Change Again";
 function getBrightness(hex) {
   var r = parseInt(hex.substr(1, 2), 16);
   var g = parseInt(hex.substr(3, 2), 16);
   var b = parseInt(hex.substr(5, 2), 16);
 document.getElementById("changeButton").addEventListener("click",
changeStyles);
```



- T2. For T1, experiment with the Javascript code by trying the following things:
- a. Make the background light green.
- b. Add a line that makes the text red.
- c. Change the fontSize to 48pt.
- d. Change the wording inside the <h1> tag in the Javascript.
- e. Add <button>Click Me</button> after the closing </h1>.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change Background Color and Text</title>
<style>
body {
   font-family: Arial, sans-serif;
   text-align: center;
   background-color: lightgreen;
}
h1 {
   color: #333;
   font-size: 48pt;
}
#changeButton {
   padding: 10px 20px;
   font-size: 16px;
```

```
<h1 id="heading">Welcome to My Webpage</h1>
<button id="changeButton">Change Background Color and Text</button>
<button onclick="changeText()">Click Me</button>
 function changeStyles() {
   var body = document.body;
   var heading = document.getElementById("heading");
   body.style.backgroundColor = "lightgreen";
   heading.style.color = "red";
   document.getElementById("changeButton").innerText = "Change Again";
   heading.innerText = "Hello World";
 function changeText() {
   var heading = document.getElementById("heading");
   heading.style.color = "blue";
 document.getElementById("changeButton").addEventListener("click",
changeStyles);
```



T3. For T1, set the color of the background directly with the class attribute. Generate alerts before and after assigning the class attribute to document object.

```
<!DOCTYPE html>
<html lang="en">
<head>

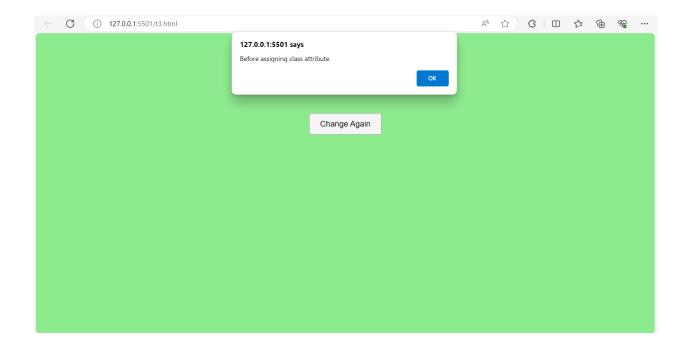
meta charset="UTF-8">

meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Change Background Color and Text</title>

<style>
body {
    font-family: Arial, sans-serif;
    text-align: center;
}
.light-green-background {
    background-color: lightgreen;
}
hl {
    color: #333;
    font-size: 48pt;
}
#changeButton {
    padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
```

```
<h1 id="heading">Welcome to My Webpage</h1>
<button id="changeButton">Change Background Color and Text</button>
 function changeStyles() {
   document.body.classList.add('light-green-background');
   var heading = document.getElementById("heading");
   heading.style.color = "red";
   document.getElementById("changeButton").innerText = "Change Again";
   heading.innerText = "Hello World";
 document.getElementById("changeButton").addEventListener("click",
changeStyles);
```



T4. Design a page having contents within and outside the main section. The page must contain a button that when clicked replaces the content of the main section with another content having different style.

```
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Page with Content Replacement</title>
<style>
body {
   font-family: Arial, sans-serif;
   text-align: center;
}
   main {
    padding: 20px;
   margin: 20px auto;
   background-color: #f0f0f0;
   border: 1px solid #ccc;
   border-radius: 5px;
   width: 80%;
}
h1 {
```

```
color: #333;
   font-size: 18px;
 #changeButton {
   padding: 10px 20px;
   font-size: 16px;
   cursor: pointer;
   margin-top: 20px;
 .alternate-content {
   background-color: #ffcc00;
   padding: 30px;
   border-radius: 10px;
<h1>Page with Content Replacement</h1>
This is content outside the main section.
<main id="mainSection">
 <h2>Main Section Content</h2>
 This is the initial content of the main section.
<button id="changeButton">Replace Main Content</button>
 function replaceContent() {
   var mainSection = document.getElementById("mainSection");
   var newContent = `
```

```
in mainSection.innerHTML = newContent;
}

document.getElementById("changeButton").addEventListener("click",
replaceContent);
</script>
</body>
</html>
```

T6. Design a webpage using grid layout that displays the following:

The first row shows icons of various web browsers and the second row shows the latest version number.

```
height: 100px;
     border: 1px solid #dddddd;
     border-radius: 5px;
     line-height: 100px;
     font-size: 24px;
    .version {
     font-size: 20px;
     text-align: center;
 <div class="container">
   <div class="icon">
alt="Chrome icon">
   <div class="icon">
alt="Firefox icon">
   <div class="icon">
src="https://www.google.com/s2/favicons?domain=www.microsoft.com/en-us/edg
e" alt="Edge icon">
   <div class="icon">
src="https://www.google.com/s2/favicons?domain=www.apple.com/safari"
alt="Safari icon">
   <div class="icon">
alt="Opera icon">
   <div class="version">16.0</div>
```

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