Experiment 7: Program based on Document Object Model to change the background color

of the web page automatically after every 5 seconds

Program:

<!DOCTYPE html>

<html>

<head>

<title>Background Color Changer</title>

<style>

body {

text-align: center;

font-family: Arial, sans-serif;

color: white;

transition: background-color 1s;

}

h1 {

margin-top: 40px;

font-size: 36px;

}

h2 {

font-size: 22px;

margin-bottom: 40px;

}

h3 {

font-size: 26px;

margin-top: 20px;

}

h4 {

font-size: 20px;

margin-top: 10px;

}

</style>

</head>

<body>

<h1>Welcome to My Website</h1>

<h2>Background colour changes after every 5 seconds</h2>

<h3 id="colorName">Current Color: </h3>

<h4 id="timer">Next change in 5 seconds</h4>

<script>

const colors = [

{name: "Blue", code: "#3498db"},

{name: "Red", code: "#e74c3c"},

{name: "Green", code: "#2ecc71"},

{name: "Purple", code: "#9b59b6"},

{name: "Orange", code: "#f39c12"}

];

let index = 0;

let countdown = 5;

function changeColor() {

document.body.style.backgroundColor = colors[index].code;

document.getElementById("colorName").innerHTML = "Current Color: " +

colors[index].name;

countdown = 5;

index = (index + 1) % colors.length;

}

function updateTimer() {

document.getElementById("timer").innerHTML = "Next change in " + countdown + "

seconds";

countdown--;

if (countdown < 0) {

changeColor();

}

}

changeColor();

setInterval(updateTimer, 1000);

</script>

</body>

</html>