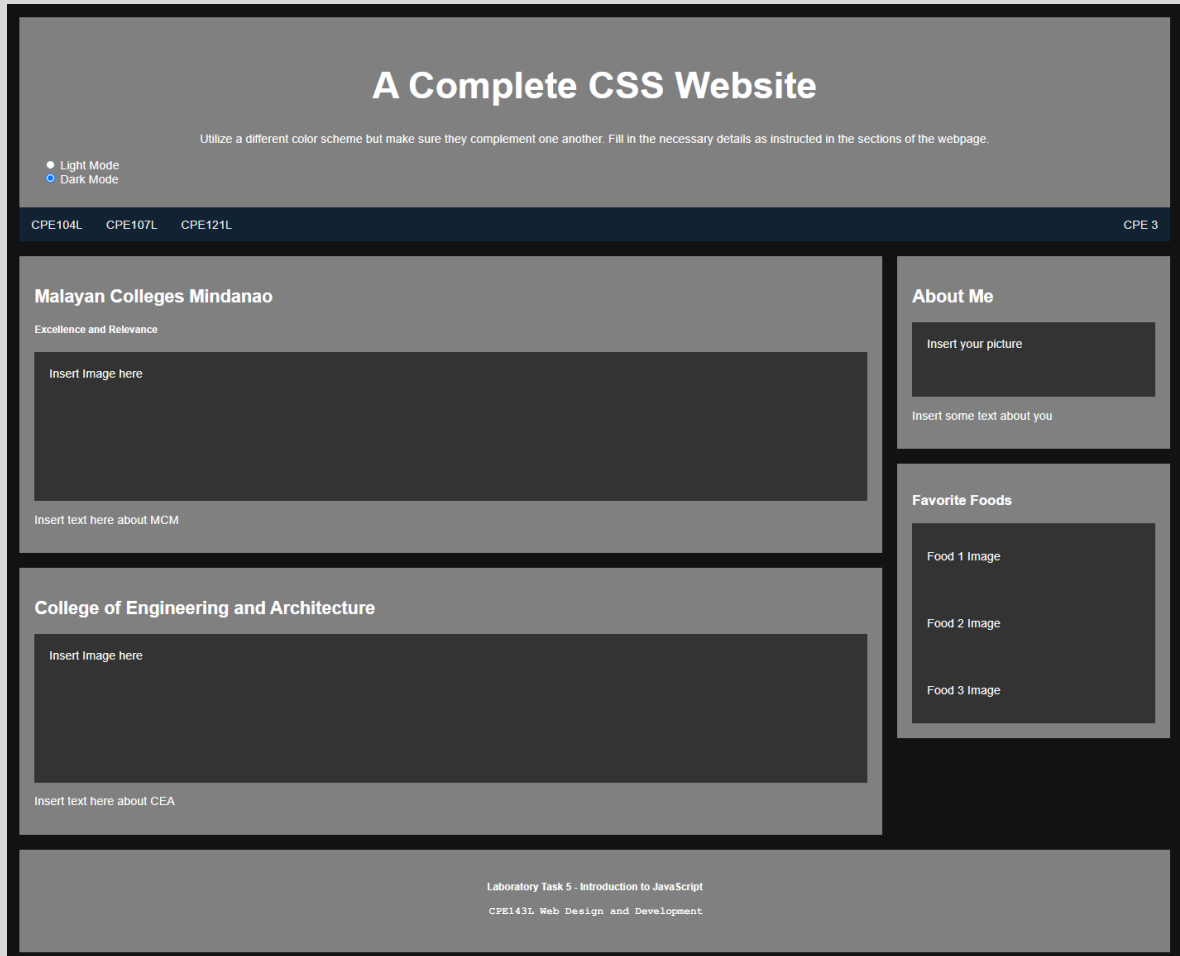


Name:	Jericho Tabingo Lagang	Date:	15/09/2023
Program:	BSCpE	Section:	A361

Intended Learning Outcomes:

1. Create output with JavaScript.
2. Utilize JavaScript variables and data types.

Using your output from Laboratory Task 4, include a button/check box/radio button/toggle switch that will change your website into **DARK MODE**. Here is an example output:



INTRODUCTION TO JAVASCRIPT

```

<br>
<br>
<caption>I am Jericho Tabingo Lagang, currently studying Computer
Engineering at Mapúa Malayan Colleges Mindanao.
    My goal is to explore the realm of technology and innovation to
contribute to the progress and improvement of our world.</caption>
</div>
<div class="block">
<h1>Favorite Foods</h1>
<ul>
    <li></li>
    <li></li>
    <li></li>
</ul>
</aside>
</div>
<div class="clear"></div>
</aside>
<footer class="block">
    <p>Laboratory Task 5- Introduction to JavaScript</p>
    <p>CPE143L Web Design and Development Laboratory</p>
</footer>
</body>
</html>
```

CSS Source Code:

```
html, body {
    height: 140%;
    margin: 0;
    padding: 0;
    background-color: #eaf4d3;
}

header {
    text-align: center;
    font-family: Arial;
    padding-top: 20px;
}

header h1 {
    font-size: 50px;
    font-weight: bold;
    color: #ca907e;
}

nav {
    background-color: #ca907e;
    height: 30px;
    padding: 10px;
    display: flex;
    align-items: center;
}

nav a {
    color: black;
    text-decoration: none;
    display: flex;
}

#spacedLink {
    margin-left: auto;
}

section {
    float: left;
    width: 65%;
    margin-left: 30px;
    margin-top: 20px;
}

aside {
    float: right;
    width: 30%;
    margin-top: 20px;
    margin-right: 30px;
}

.block {
    background-color: #dbd8ae;
    padding: 30px;
    margin-bottom: 10px;
    margin-top: 10px;
}

.clear {
    clear: both;
}

caption {
    text-align: center;
}
```

```
ul {
  list-style-type: none;
}

input[type="checkbox"] {
  display: none;
}

label[for="darkModeToggle"] {
  display: inline-block;
  width: 60px;
  height: 34px;
  background-color: #ccc;
  border-radius: 17px;
  position: absolute;
  cursor: pointer;
  transition: background-color 0.3s ease;
  top: 20px;
  right: 50px;
  padding: 0;
}

label[for="darkModeToggle"]::after {
  content: "";
  position: absolute;
  width: 30px;
  height: 30px;
  border-radius: 50%;
  background-color: #fff;
  top: 2px;
  left: 2px;
  transition: transform 0.3s ease;
}

input[type="checkbox"]:checked + label[for="darkModeToggle"] {
  background-color: #007bff;
}

input[type="checkbox"]:checked + label[for="darkModeToggle"]::after {
  transform: translateX(26px);
}

/* Styles for dark mode */
html.dark-mode, body.dark-mode {
  background-color: #333;
  color: #fff;
}

.dark-mode .block {
  background-color: black;
}

footer {
  text-align: center;
  margin-bottom: auto;
  height: 200px;
  background-color: #dbd8ae;
  margin: 30px;
  justify-content: center;
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
}
```

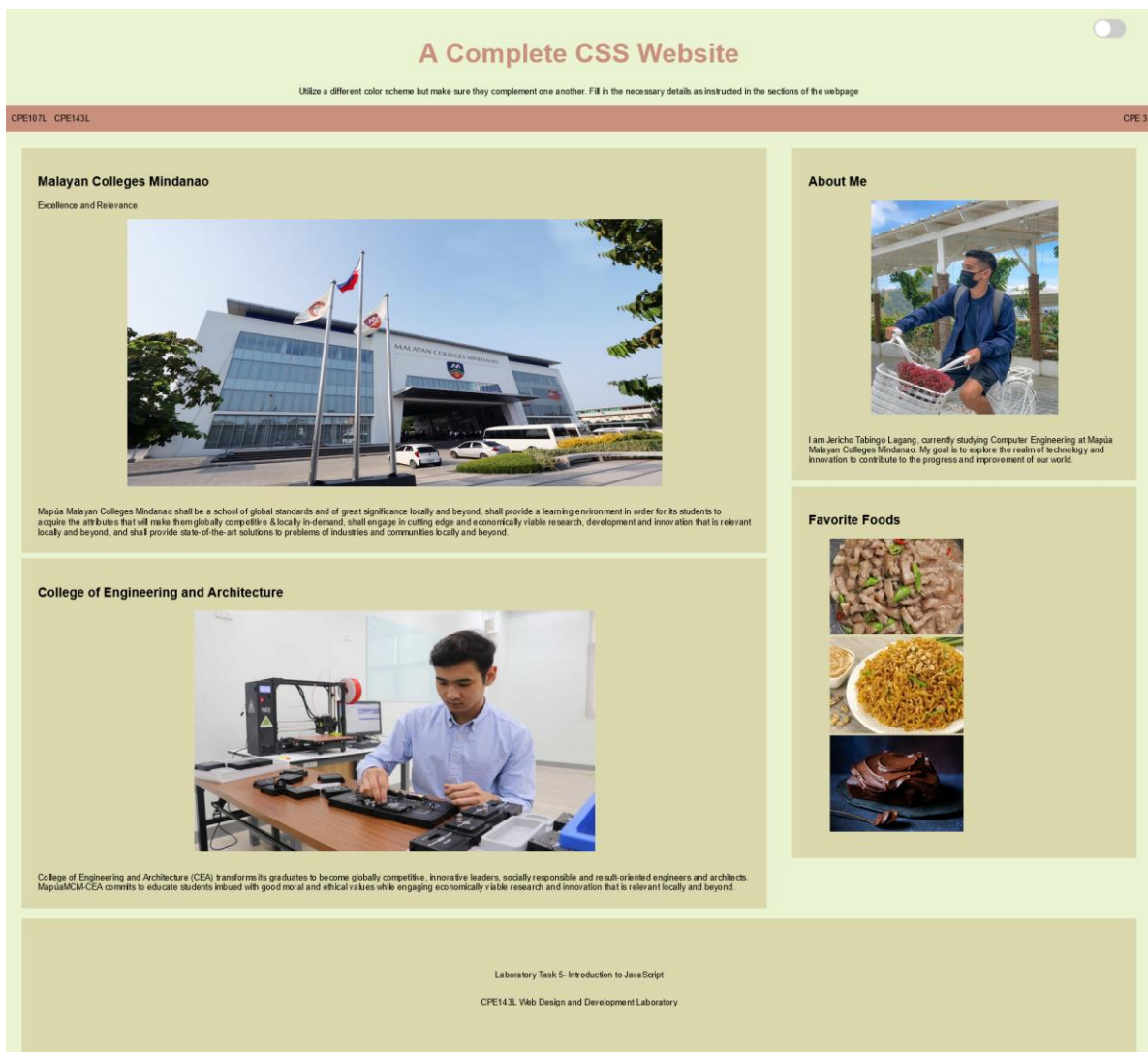
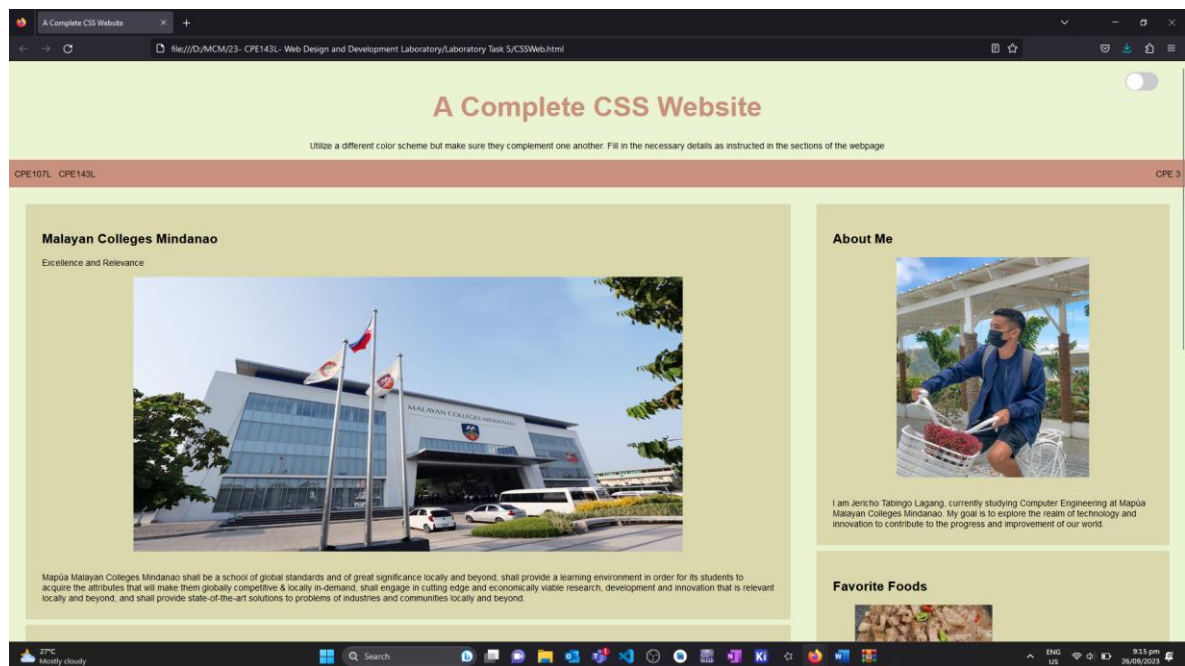
JavaScript Source Code:

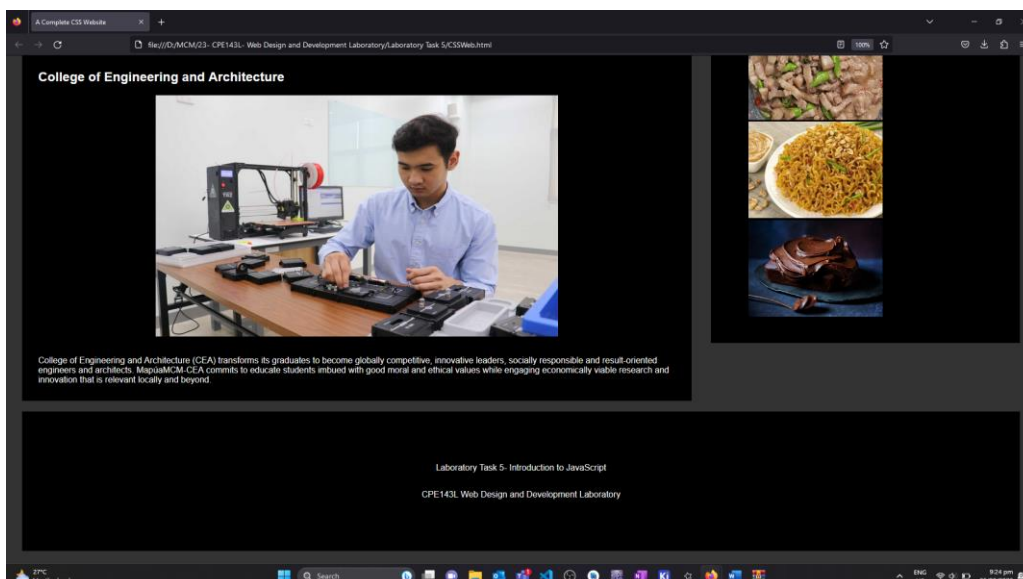
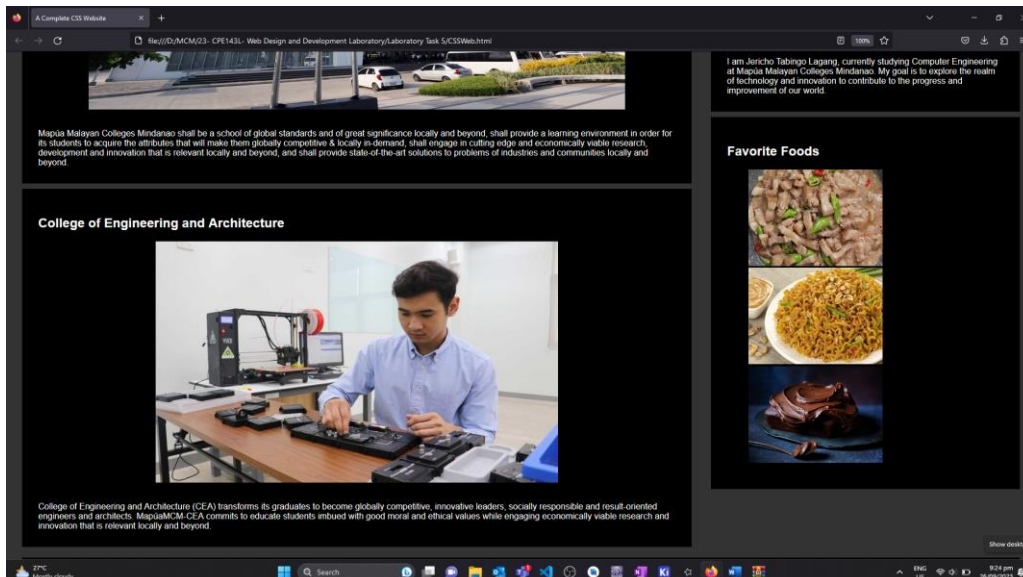
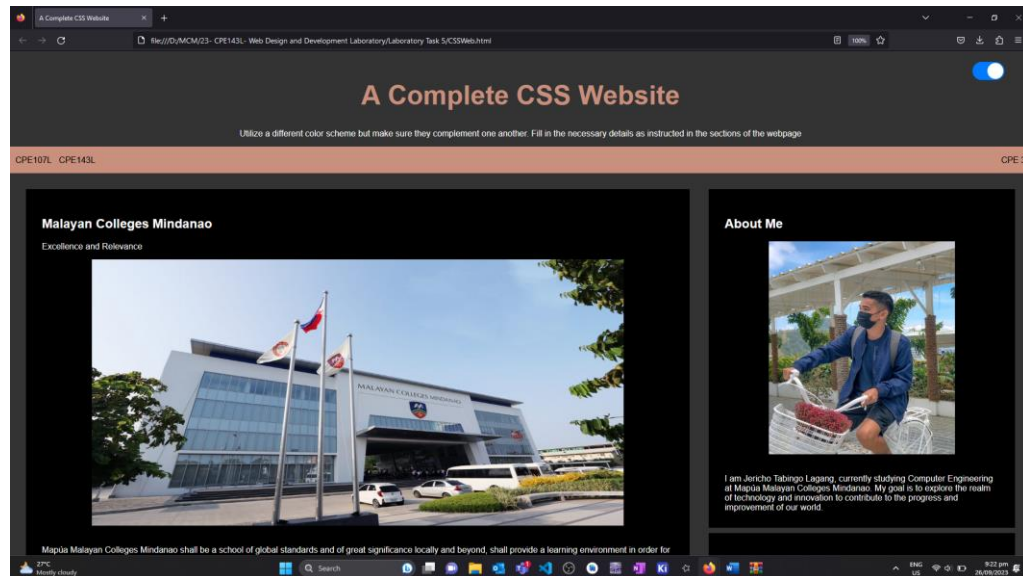
```
document.addEventListener("DOMContentLoaded", function () {
  const darkModeToggle = document.getElementById("darkModeToggle");
  const body = document.body;

  // Check if dark mode is enabled in local storage
  if (localStorage.getItem("darkMode") === "enabled") {
    body.classList.add("dark-mode");
    darkModeToggle.checked = true;
  }

  // Toggle dark mode
  darkModeToggle.addEventListener("change", () => {
    if (darkModeToggle.checked) {
      body.classList.add("dark-mode");
      localStorage.setItem("darkMode", "enabled");
    } else {
      body.classList.remove("dark-mode");
      localStorage.setItem("darkMode", "disabled");
    }
  });
});
```

Output:





Findings and Observations:

The implementation of dark mode in web applications, facilitated by JavaScript, enhances user experience by providing an eye-friendly, low-light interface. By toggling CSS classes and utilizing event listeners, JavaScript dynamically adjusts the color scheme, making content more accessible and reducing eye strain. This feature, often customized to align with the website's theme, respects user preferences and can be stored in 'localStorage' for consistency across sessions, underscoring the importance of JavaScript in creating interactive and user-centric web experiences.