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| **Name:** | JHON LOUIS VALENTIN | **Date:** | 3/18/2022 |
| **Program:** | CPE | **Section:** | A461 |

**Intended Learning Outcomes:**

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

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| 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:  A screenshot of a computer  Description automatically generated |

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**HTML Source Code:**

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| <!DOCTYPE html>  <html>  <head>  <title> Lab Task 5 </title>  <link id="theme" rel="stylesheet" href="./Lab5Light.css" type="text/css">  </head>  <body>  <script src="DarkMode.js"></script>  <div>  <table>  <tr>  <td colspan="2">  <header>  <h1> A Complete CSS Website </h1>  <p> Utilize a different color scheme but make sure they complement each other. Fill in the necessary details as instructed in the section of the webpage. </p>  <button id="btn" onclick="BtnClick();">Turn on dark mode</button>  </header>  <nav>  <ul>  <li class="left"> <a href="#"> CPE104L </a> </li>  <li class="left"> <a href="#"> CPE107L </a> </li>  <li class="left"> <a href="#"> CPE121L </a> </li>  <li class="right"> <a href="#"> CPE 3 </a> </li>  </ul>  </nav>  </td>  </tr>  <tr>  <td id="FirstData">  <div class="MCM">  <div class="Information">  <h2> Malayan Colleges Mindanao </h2>  <h4> Excellence and Relevance </h4>  <div class="InsertImage">  <p> Insert Image here </p>  </div>  <p> Insert text here about MCM </p>  </div>  </div>  <div class="CEA">  <div class="Information">  <h2> College of Engineering and Architecture </h2>  <div class="InsertImage">  <p> Insert Image here </p>  </div>  <p> Insert text here about CEA </p>  </div>  </div>  </td>  <td id="SecondData">  <div class="AboutMe">  <div class="Information">  <h2> About Me </h2>  <div class="InsertAbout">  <p> Insert Image here </p>  </div>  <p> Insert text here about you </p>  </div>  </div>  <div class="FavoriteFoods">  <div class="Information">  <h2> Favorite Foods </h2>  <div class="FoodInsert">  <p> Food 1 Image </p> <br>  <p> Food 2 Image </p> <br>  <p> Food 3 Image </p>  </div>  </div>  </div>  </td>  </tr>  <tr>  <td colspan="2">  <footer>  <p> <b> Laboratory Task 3 - Advanced CSS Styling </b></p>  <p> <b> CPE107L Software Design Laboratory </b></p>  </footer>  </td>  </tr>  </table>  </div>  </body>  </html> |

**CSS Source Code:**

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| Light theme  /\* light-theme \*/  body {  font-family: Arial, Helvetica, sans-serif;  background: #d7dfdf;  }  header {  margin: 15px;  padding: 30px;  text-align: center;  background: #E7EFF6;  }  ul {  list-style-type: none;  margin: 15px;  margin-top: -20px;  padding: 0;  overflow: hidden;  background-color: #13274C;  }  li.left {  float: left;  }  li.right {  float: right;  }  li a {  display: block;  color: white;  text-align: center;  padding: 14px 16px;  text-decoration: none;  }  li a:hover {  background-color: #111;  }  .AboutMe {  background-color: #E7EFF6;  /\* float: left; \*/  width: 400px;  margin-right: auto;  margin-left: auto;  }  .InsertAbout {  background-color: #90BAD3;  padding: 15px;  text-align: left;  }  .FavoriteFoods {  /\* margin: 15px; \*/  background-color: #E7EFF6;  /\* float: left; \*/  width: 400px;  /\* padding: 10px; \*/  margin-right: auto;  margin-left: auto;  }  .FoodInsert {  background-color: #90BAD3;  padding: 10px;  text-align: left;  }  .MCM {  /\* margin: 15px;  padding: 20px; \*/  background-color: #E7EFF6;  width: 100%;  }  .CEA {  /\* margin: 15px;  padding: 20px; \*/  /\* margin: 15px; \*/  background-color: #E7EFF6;  /\* padding: 20px; \*/  width: 100%;  }  .InsertImage {  background-color: #90BAD3;  padding: 50px;  }  footer {  padding: 20px;  text-align: center;  background: #E7EFF6;  margin-top: 10px;  margin: 15px;  }  #FirstData {  margin: 15px;  padding: 10px;  width: 100%;  vertical-align: top;  }  #SecondData {  margin: 15px;  padding: 10px;  vertical-align: top;  }  .Information {  padding: 15px;  margin: 15px;  }  Dark theme  /\* dark-theme \*/  body {  font-family: Arial, Helvetica, sans-serif;  background: black;  }  header {  margin: 15px;  padding: 30px;  text-align: center;  background: #6b6767;  }  .dark-mode{  color:rgb(207, 200, 200);  }  ul {  list-style-type: none;  margin: 15px;  margin-top: -20px;  padding: 0;  overflow: hidden;  background-color: #081224  ;  }  li.left {  float: left;  }  li.right {  float: right;  }  li a {  display: block;  color: rgb(207, 200, 200);  text-align: center;  padding: 14px 16px;  text-decoration: none;  }  li a:hover {  background-color: #111;  }  .AboutMe {  background-color: #6b6767;  /\* float: left; \*/  width: 400px;  margin-right: auto;  margin-left: auto;  }  .InsertAbout {  background-color:#2a2a2b;  padding: 15px;  text-align: left;  }  .FavoriteFoods {  /\* margin: 15px; \*/  background-color: #6b6767;  /\* float: left; \*/  width: 400px;  /\* padding: 10px; \*/  margin-right: auto;  margin-left: auto;  }  .FoodInsert {  background-color: #2a2a2b;  padding: 10px;  text-align: left;  }  .MCM {  /\* margin: 15px;  padding: 20px; \*/  background-color: #6b6767;  width: 100%;  }  .CEA {  /\* margin: 15px;  padding: 20px; \*/  /\* margin: 15px; \*/  background-color: #6b6767;  /\* padding: 20px; \*/  width: 100%;  }  .InsertImage {  background-color: #2a2a2b;  padding: 50px;  }  footer {  padding: 20px;  text-align: center;  background: #6b6767;  margin-top: 10px;  margin: 15px;  }  #FirstData {  margin: 15px;  padding: 10px;  width: 100%;  vertical-align: top;  }  #SecondData {  margin: 15px;  padding: 10px;  vertical-align: top;  }  .Information {  padding: 15px;  margin: 15px;  } |

**JavaScript Source Code:**

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| //a function needed for the css element to change the text color  function DarkModeON() {  var btn = document.body;  btn.classList.toggle("dark-mode");  }  //This changes the text of the button  var clicked= false;  function DMode(){  if(!clicked){  clicked = true;  document.getElementById("btn").innerHTML = "Turn off dark mode";  } else{  clicked = false;  document.getElementById("btn").innerHTML = "Turn on dark mode";  }  }  //This switches the themes for the website  function Dark(){  var theme = document.getElementsByTagName('link')[0];  if (theme.getAttribute('href') == 'Lab5Dark.css') {  theme.setAttribute('href', 'Lab5Light.css');  } else {  theme.setAttribute('href', 'Lab5Dark.css');  }  }  //Gi isahan ko nalang ang functions sa isang function  function BtnClick(){  DarkModeON()  DMode()  Dark()  }Ensure proper formatting of your source code.  Add breaks or new lines in the codes if necessary. |

**Output:**

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**Findings and Observations:**

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| Graphical user interface, application  Description automatically generated |
| I noticed that html is provides the content, css is for the layout of the website and javascript is for the behavior of the webpages. |