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IWP Lab Assessment 2

Question :

Develop a Calculator application using HTML, CSS and JS.

The calculator must have all the basic functionalities.

- Calculator must have round border and buttons.*
- Use different colors for number and operations.*
- Use CSS to show the calculator in dark and light theme mode.*

Code:

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <link rel="stylesheet" href="style.css">
  <title>CALCULATOR</title>
</head>
<body>
  <h1>Calculator</h1>
  <button onclick="toggleDarkMode()">Toggle Dark Mode</button>
  <table class = "calculator" id="calci">
    <tr>
      <td colspan = "3"> <input class = "display-box" type =
"text" id = "result" disabled /> </td>
      <!-- clearScreen() function clear all the values -->
      <td> <input class = "button-op" type = "button" value = "C"
onclick = "clearScreen()" /> </td>
    </tr>
    <tr>
      <!-- display() function display the value of clicked button
-->
      <td> <input class = "button" type = "button" value = "1"
onclick = "display('1')" /> </td>
      <td> <input class = "button" type = "button" value = "2"
onclick = "display('2')" /> </td>
      <td> <input class = "button" type = "button" value = "3"
onclick = "display('3')" /> </td>
      <td> <input class = "button-op" type = "button" value = "/"
onclick = "display('/')" /> </td>
    </tr>
    <tr>
      <td> <input class = "button" type = "button" value = "4"
onclick = "display('4')" /> </td>
      <td> <input class = "button" type = "button" value = "5"
onclick = "display('5')" /> </td>
```

```

        <td> <input class = "button" type = "button" value = "6"
onclick = "display('6')" /> </td>
        <td> <input class = "button-op" type = "button" value = "-"
onclick = "display('-')" /> </td>
    </tr>
    <tr>
        <td> <input class = "button" type = "button" value = "7"
onclick = "display('7')" /> </td>
        <td> <input class = "button" type = "button" value = "8"
onclick = "display('8')" /> </td>
        <td> <input class = "button" type = "button" value = "9"
onclick = "display('9')" /> </td>
        <td> <input class = "button-op" type = "button" value = "+"
onclick = "display('+')" /> </td>
    </tr>
    <tr>
        <td> <input class = "button" type = "button" value = "."
onclick = "display('.')" /> </td>
        <td> <input class = "button" type = "button" value = "0"
onclick = "display('0')" /> </td>
        <td> <input class = "button-op" type = "button" value = "="
onclick = "calculate()" /> </td>
        <td> <input class = "button-op" type = "button" value = "*"
onclick = "display('*')" /> </td>
    </tr>
</table>
<script src="index.js"></script>
</body>
</html>

```

style.css

```
body{
  padding: 25px;
  background-color: aliceblue;
  color: black;
  font-size: 25px;
}

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

.calculator {
  padding: 10px;
  border-radius: 1em;
  height: 380px;
  width: 400px;
  margin: auto;
  background-color: #191b28;
  box-shadow: rgba(0, 0, 0, 0.19) 0px 10px 20px, rgba(0, 0, 0,
0.23) 0px 6px 6px;
}

.calculator-dark{
  padding: 10px;
  border-radius: 1em;
  height: 380px;
  width: 400px;
  margin: auto;
  background-color: #ffffff;
  box-shadow: rgba(0, 0, 0, 0.19) 0px 10px 20px, rgba(0, 0, 0,
0.23) 0px 6px 6px;
}

.display-box {
  font-size: 40px;
  background-color: #dcdbe1;
  border: solid black 0.5px;
  color: black;
  border-radius: 5px;
}
```

```
    width: 100%;  
    height: 65%;  
}  
  
.button {  
    font-size: 40px;  
    background-color: yellowgreen;  
    color: white;  
    border: solid black 0.5px;  
    width: 100%;  
    border-radius: 5px;  
    height: 70%;  
    outline: none;  
}  
  
.button-op {  
    font-size: 40px;  
    background-color: blueviolet;  
    color: white;  
    border: solid black 0.5px;  
    width: 100%;  
    border-radius: 5px;  
    height: 70%;  
    outline: none;  
}  
  
.button:active {  
    background: #e5e5e5;  
    -webkit-box-shadow: inset 0px 0px 5px #c1c1c1;  
    -moz-box-shadow: inset 0px 0px 5px #c1c1c1;  
    box-shadow: inset 0px 0px 5px #c1c1c1;  
}
```

index.js

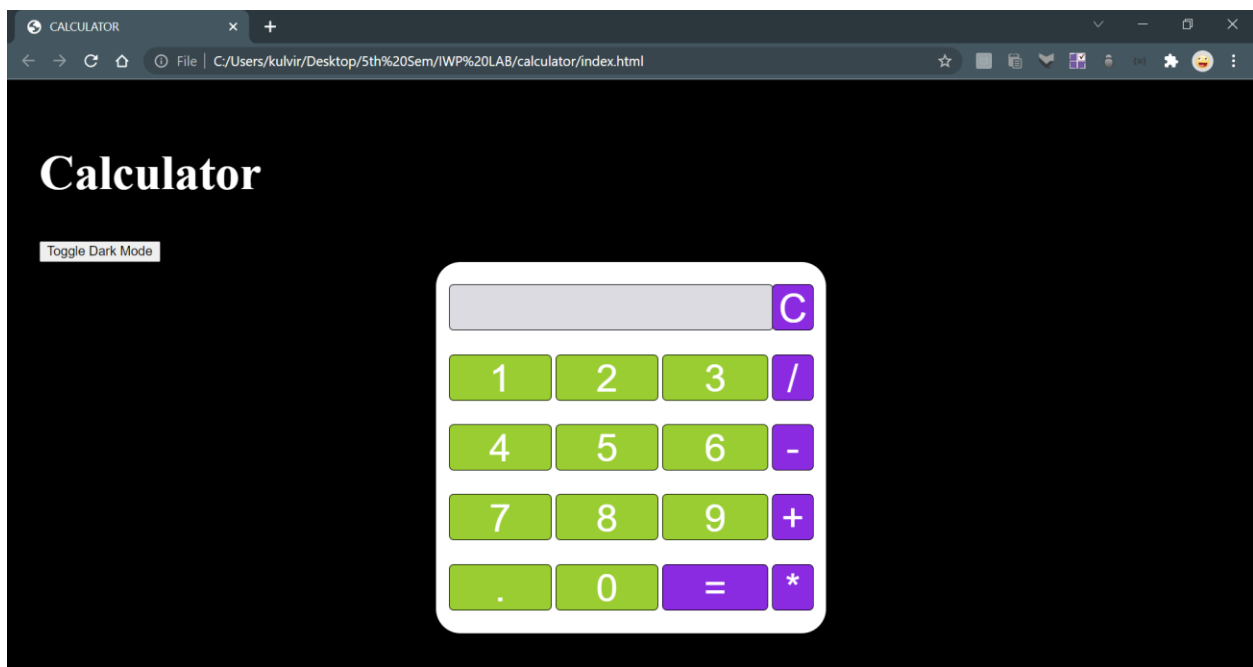
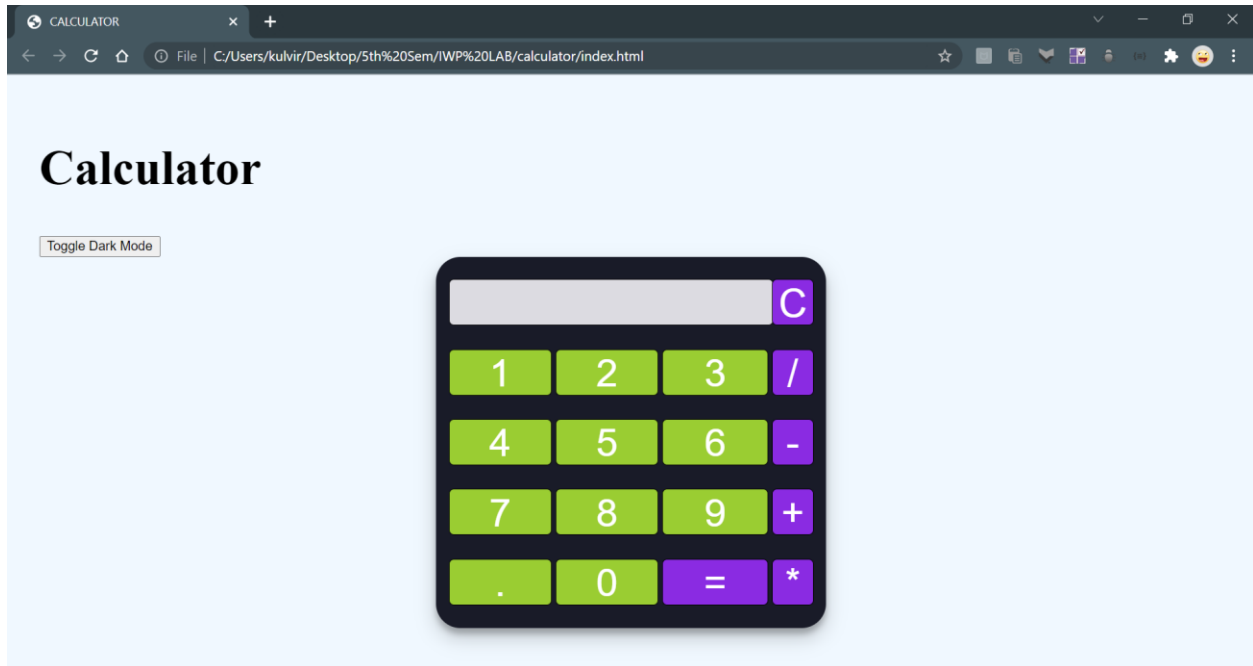
```
function toggleDarkMode(){
    var element = document.body;
    element.classList.toggle("dark-mode");
    (document.getElementById("calci").classList.toggle("calculator-
dark"));
}

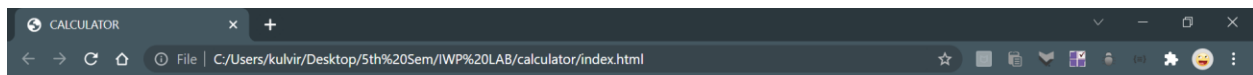
function clearScreen() {
    document.getElementById("result").value = "";
}

function display(value) {
    document.getElementById("result").value += value;
}

function calculate() {
    var p = document.getElementById("result").value;
    var q = eval(p);
    document.getElementById("result").value = q;
}
```

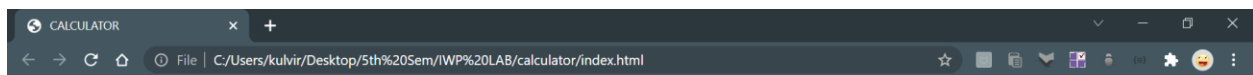
Output Screenshots :





Calculator

Toggle Dark Mode



Calculator

Toggle Dark Mode

