



DEPARTMENT OF COMPUTER STUDIES
ITEC 106 – IT ELECTIVE 2 (WEB SYSTEM AND TECHNOLOGIES 2)

Name : Rynella Cacho	Section : BSIT 3C
Assignment No : 1	Submission Date : Mar. 16, 2024
Assignment Title: Calculator	

Code :**HTML FILE**

```
<!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>
    <div class="container">
      <div class="calculator">
        <input type="text" id="inputBox" placeholder="0"
/>

        <div>
          <button class="button up-
operator">AC</button>
          <button class="button up-operator">+/-
</button>
          <button class="button up-operator">%</button>
          <button class="button operator">÷</button>
        </div>
        <div>
          <button class="button">7</button>
          <button class="button">8</button>

          <button class="button">9</button>
          <button class="button operator">x</button>
        </div>
        <div>
          <button class="button">4</button>
          <button class="button">5</button>
          <button class="button">6</button>
          <button class="button operator">-</button>
        </div>
        <div>
          <button class="button">1</button>
          <button class="button">2</button>
          <button class="button">3</button>
          <button class="button operator">+</button>
        </div>
        <div>
          <button class="button">00</button>
          <button class="button">0</button>
          <button class="button">.</button>
          <button class="button equalBtn">=</button>
        </div>
      </div>
    </div>
    <script src="script.js"></script>
  </body>
</html>
```



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JS FILE

```
let input = document.getElementById('inputBox');
let buttons = document.querySelectorAll('button');

let string = "";
let arr = Array.from(buttons);
arr.forEach(button => {
    button.addEventListener('click', (e) =>{
        if(e.target.innerHTML == '='){
            string = eval(string);
            input.value = string;
        }

        else if(e.target.innerHTML == 'AC'){
            string = "";
            input.value = string;
        }

        else if(e.target.innerHTML == 'DEL'){
            string = string.substring(0, string.length-1);
            input.value = string;
        }

        else{
            string += e.target.innerHTML;
            input.value = string;
        }
    })
})
```

CSS FILE

```
@import
url('https://fonts.googleapis.com/css2?family=Poppins
:wght@500&display=swap');

*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Poppins', sans-serif;
}
body{
    width: 100%;
    height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
    background: #000000;
}
.calculator{
    border: 2px solid #ffffff;
    padding: 20px;
    border-radius: 16px;
    background: transparent;
    box-shadow: 0px 3px 15px rgba(0, 0, 0, 0.5);
}
input{
    width: 320px;
    border: none;
    padding: 24px;
    margin: 10px;
    background: transparent;
    font-size: 50px;
    text-align: right;
    cursor: pointer;
    color: #ffffff;
}
input::placeholder{
    color: #ffffff;
}
button{
    border: none;
    width: 60px;
    height: 60px;
    margin: 10px;
```

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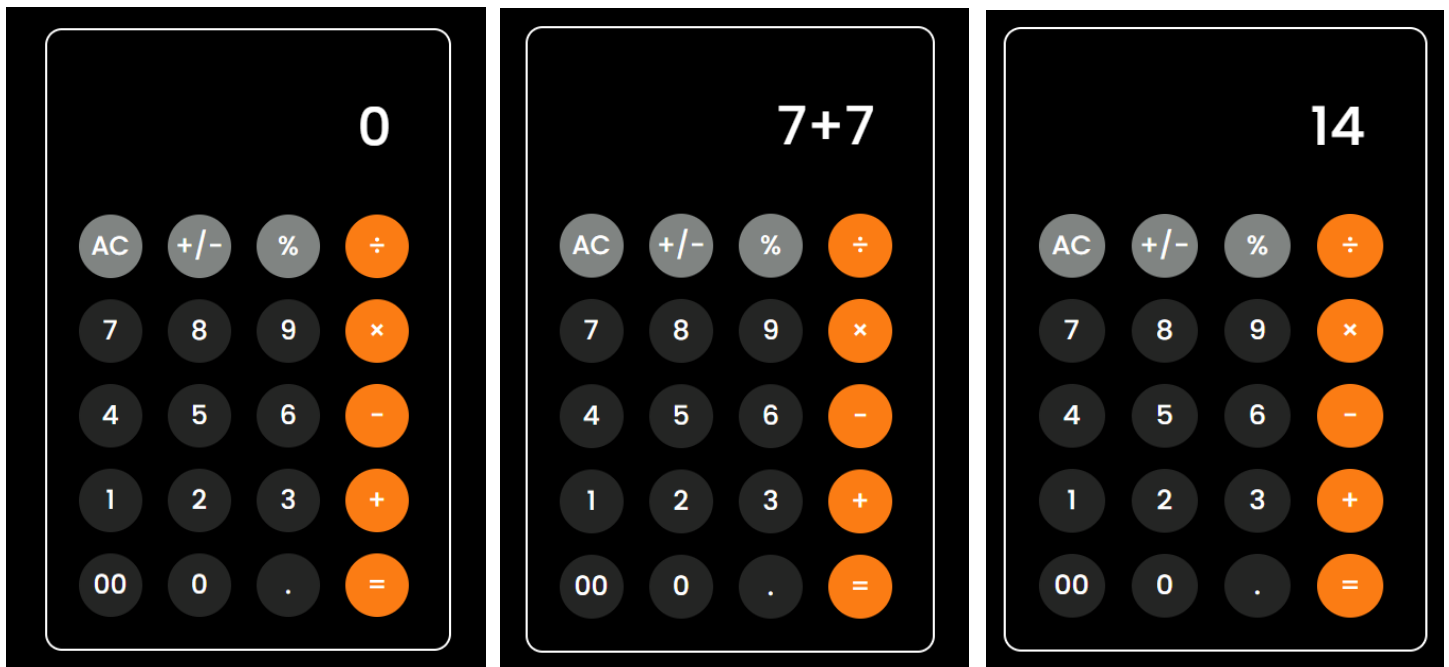
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```
border-radius: 50%;
background-color: #242524;
color: #ffffff;
font-size: 25px;

box-shadow: -8px -8px 15px rgba(0, 0, 0, 0.1);
cursor: pointer;
}
.equalBtn{
  background-color: #fb7c14;
}

.up-operator{
  color: #ffffff;
  background-color: #808482;
}
.operator{
  color: #ffffff;
  background-color: #fb7c14;
}
```

SCREENSHOT



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Dictionary:

- **document.querySelectorAll** - is a JavaScript method used to select multiple HTML elements based on a CSS selector. It returns a collection of elements that match the selector.
Syntax : `document.querySelectorAll(selector);`
- **eval()** - is a function that takes a string containing code as input and runs it as if it were part of the program.
Syntax : `eval("console.log('Hello, world!');");`
- **target.innerHTML** - is a JavaScript property that allows you to get or set the HTML content inside a specific element on a webpage.

To get the HTML content inside an element:

Syntax : `var target = document.getElementById('yourElementId');
htmlContent = target.innerHTML;`

To set the HTML content inside an element:

Syntax : `var target = document.getElementById('yourElementId');
target.innerHTML = 'New HTML content';`

- **Array.from(buttons)** - creates a real array from a list of buttons, so you can easily use array methods on them.
Syntax : `Array.from(iterable);`
- **addEventListener** - is a way to make your JavaScript code react to events like clicking a button or moving the mouse.
Syntax: `button.addEventListener('click', function() {
 console.log('Button clicked!');
});`