



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

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Assignment No : 1	Submission Date : March. 09, 2024
Assignment Title: Calculator	

Code :**HTML FILE**

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculator</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="calculator">
    <input type="text" id="display" disabled>
    <div>
      <button class="button number" onclick="appendToDisplay('7')">7</button>
      <button class="button number" onclick="appendToDisplay('8')">8</button>
      <button class="button number" onclick="appendToDisplay('9')">9</button>
      <button class="button operator" onclick="appendToDisplay('+')">+</button>
    </div>
    <div>
      <button class="button number" onclick="appendToDisplay('4')">4</button>
      <button class="button number" onclick="appendToDisplay('5')">5</button>
      <button class="button number" onclick="appendToDisplay('6')">6</button>
      <button class="button operator" onclick="appendToDisplay('-')">-</button>
    </div>
    <div>
      <button class="button number" onclick="appendToDisplay('1')">1</button>
      <button class="button number" onclick="appendToDisplay('2')">2</button>
      <button class="button number" onclick="appendToDisplay('3')">3</button>
    </div>
  </div>

```

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```
<button class="button operator" onclick="appendToDisplay('*')">*</button>
</div>
<div>
  <button class="button number" onclick="appendToDisplay('0')">0</button>
  <button class="button number" onclick="appendToDisplay('.')">.</button>
  <button class="button operator" onclick="calculate()">=</button>
  <button class="button operator" onclick="appendToDisplay('/')">/</button>
</div>
<div>
  <button class="button" onclick="clearDisplay()">C</button>
  <button class="button" onclick="deleteLastCharacter()">X</button>
</div>
</div>
<script src="script.js"></script>
</body>
</html>
```

JS FILE

```
// Function to append value to display
function appendToDisplay(value) {
  document.getElementById('display').value += value;
}

// Function to clear the display
function clearDisplay() {
  document.getElementById('display').value = "";
}

// Function to perform calculation
function calculate() {
  try {
    var displayValue = document.getElementById('display').value;
    var result = eval(displayValue);
    if (isNaN(result) || !isFinite(result)) {
      throw "Invalid expression";
    }
    document.getElementById('display').value = result;
  } catch (error) {
    alert("Error: " + error);
  }
}
```

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```
}  
}
```

// Function to delete the last character from display

```
function deleteLastCharacter() {  
    var displayValue = document.getElementById('display').value;  
    document.getElementById('display').value = displayValue.slice(0, -1);  
}
```

// Keyboard support

```
document.addEventListener('keydown', function(event) {  
    const key = event.key;  
    if (key >= '0' && key <= '9' || key === '+' || key === '-' || key === '*' || key === '/' || key === '.') {  
        appendToDisplay(key);  
    } else if (key === 'Enter') {  
        calculate();  
    } else if (key === 'Backspace') {  
        deleteLastCharacter();  
    }  
});
```

CSS FILE

```
body {  
    background-color: #fff3f3;  
    font-family: Arial, sans-serif;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
    margin: 0;  
}  
  
.calculator {  
    background-color: #171717df;  
    border-radius: 10px;  
    padding: 20px;  
    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);  
}
```

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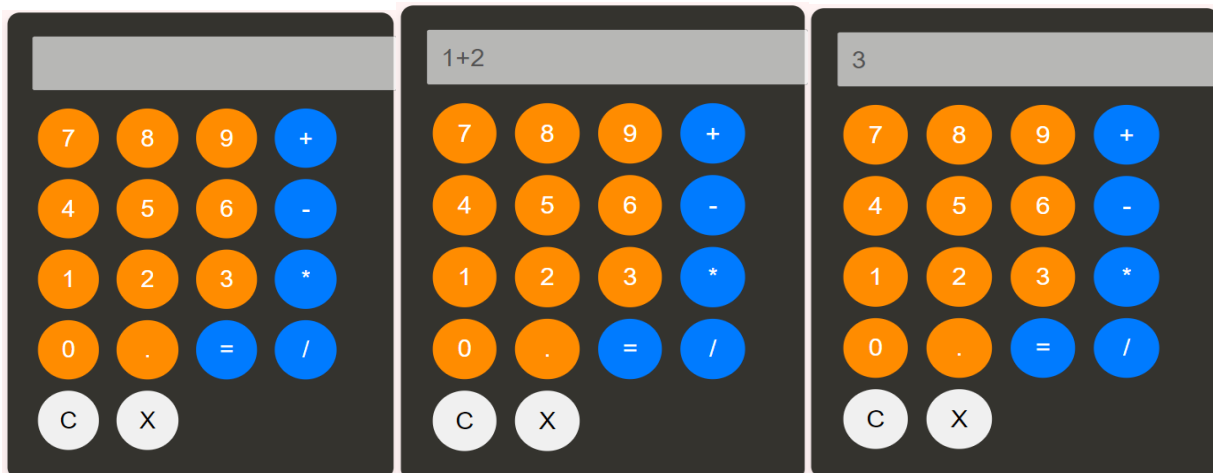
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```
.button {  
  width: 50px;  
  height: 50px;  
  margin: 5px;  
  font-size: 20px;  
  border: none;  
  border-radius: 50%;  
  cursor: pointer;  
}  
  
.number {  
  background-color: #ff8c00;  
  color: #fff;  
}  
  
.operator {  
  background-color: #007bff;  
  color: #fff;  
}
```

SCREENSHOT



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Dictionary:

meta: Provides metadata about the HTML document.

- Example: `<meta charset="UTF-8">`

input: Creates input fields in forms.

- Example: `<input type="text" id="display" disabled>`

button: Creates clickable button elements.

- Example: `<button class="button number" onclick="appendToDisplay('7') ">7</button>`

onclick: Executes JavaScript code when a button is clicked.

- Example: `<button onclick="appendToDisplay('7') ">7</button>`

class: Specifies one or more CSS classes for an HTML element.

- Example: `<button class="button number">7</button>`

id: Uniquely identifies an element within a document.

- Example: `<input type="text" id="display" disabled>`

document.getElementById(): Retrieves an HTML element by its ID.

- Example: `document.getElementById('display')`

eval(): Evaluates JavaScript code represented as a string.

- Example: `eval(displayValue)`

try...catch: Error handling mechanism in JavaScript.

Example:

```
try
// Code that may throw an error
catch
// Code to handle the error
```

alert(): Creates a pop-up dialog box with a message.

- Example: `alert("Error: " + error)`

addEventListener(): Attaches an event listener to an HTML element.

- Example: `document.addEventListener 'keydown' function
// Code to handle keydown event`

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