

- **NAME: SUMEDH PIMPLIKAR**
- **DOMAIN OF INTERNSHIP: WEB DEVELOPMENT**

HTML CODE FOR CALCULATOR WEB DEVELOPMENT PROJECT

```
<!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="container">

    <div class="text">

    </div>

    <div class="calculator">

      <div class="display" id="display">0</div>

      <div class="keys">

        <button class="dark-gray" onclick="clearDisplay()">AC</button>

        <button class="dark-gray" onclick="appendNumber('7')">7</button>

        <button class="dark-gray" onclick="appendNumber('8')">8</button>

        <button class="dark-gray" onclick="appendNumber('9')">9</button>

        <button class="orange" onclick="setOperation('+')">+</button>

        <button class="dark-gray" onclick="appendNumber('4')">4</button>

        <button class="dark-gray" onclick="appendNumber('5')">5</button>

        <button class="dark-gray" onclick="appendNumber('6')">6</button>

        <button class="orange" onclick="setOperation('-')">-</button>

        <button class="dark-gray" onclick="appendNumber('1')">1</button>

        <button class="dark-gray" onclick="appendNumber('2')">2</button>

        <button class="dark-gray" onclick="appendNumber('3')">3</button>

        <button class="orange" onclick="setOperation('*')">*</button>

      </div>

    </div>

  </div>

</body>

</html>
```

```

<button class="dark-gray" onclick="appendNumber('0')">0</button>

<button class="dark-gray" onclick="appendDecimal()">>.</button>

<button class="orange" onclick="calculate()">>=</button>

<button class="orange" onclick="setOperation('/')">/</button>

<button class="orange" onclick="calculateModulo()">>%</button>

<button class="orange" onclick="calculateSquare()">>x2</button>

</div>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

```

CSS CODE FOR CALCULATOR WEB DEVELOPMENT PROJECT

```

body {

background-color: #4b3e9a; /* Light blue background color */


margin: 50;

padding: 0;

}


h1 {

text-align: center;

font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;

font-size: 300%;

margin-top: 2%;

background-color: #0a0202;

color: rgb(211, 184, 184);

border: 2px solid black; /* Add black border */

border-radius: 30px; /* Add border radius for rounded corners */

```

```
    box-shadow: 0 0 30px rgba(0, 0, 0, 0.3); /* Add box shadow for beveled edge effect */
    padding: 20px;
}

.container {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh; /* Set the container height to the full height of the viewport */
}

.calculator {
    width: 40%;
    margin-top: 2%; /* Adjust top margin as needed */
    background-color: black; /* Black backdrop */
    padding: 20px;
    border-radius: 10px;
    border: 2px solid black; /* Add black border */
    box-shadow: 0 0 130px rgba(0, 0, 0, 0.3); /* Add box shadow for beveled edge effect */
}

.display {
    background-color: #212121;
    color: #fff;
    padding: 20px;
    text-align: right;
    font-size: 2em;
    margin-bottom: 20px;
    border: 2px solid black; /* Add black border */
    border-radius: 10px; /* Add border radius for rounded corners */
}

.keys {
```

```
display: grid;

grid-template-columns: repeat(4, 1fr);

grid-gap: 10px;

border: 2px solid black; /* Add black border */

border-radius: 10px; /* Add border radius for rounded corners */

}
```

```
button {

padding: 20px;

font-size: 1.5em;

border: none;

cursor: pointer;

border: 2px solid black; /* Add black border */

border-radius: 10px; /* Add border radius for rounded corners */

}
```

```
.dark-gray {

background-color: #424242;

color: #fff;

}
```

```
.orange {

background-color: #ff9800;

color: #fff;

}
```

```
button:hover {

opacity: 0.8;

}
```

JAVASCRIPT CODE FOR CALCULATOR WEB DEVELOPMENT PROJECT

```
let displayValue = '0';
```

```
let pendingValue = '';
```

```
let operation = null;
```

```
const displayElement = document.getElementById('display');
```

```
function updateDisplay() {  
    displayElement.innerText = displayValue;  
}
```

```
function clearDisplay() {  
    displayValue = '0';  
    pendingValue = '';  
    operation = null;  
    updateDisplay();  
}
```

```
function appendNumber(number) {  
    if (displayValue === '0') {  
        displayValue = number;  
    } else {  
        displayValue += number;  
    }  
    updateDisplay();  
}
```

```
function appendDecimal() {  
    if (!displayValue.includes('.')) {  
        displayValue += '.';  
        updateDisplay();  
    }  
}
```

```
}  
}
```

```
function setOperation(op) {  
  if (pendingValue !== "") {  
    calculate();  
  }  
  operation = op;  
  pendingValue = displayValue;  
  displayValue = '0';  
}
```

```
function calculate() {  
  const currentValue = parseFloat(displayValue);  
  const previousValue = parseFloat(pendingValue);
```

```
  switch (operation) {  
    case '+':  
      displayValue = previousValue + currentValue;  
      break;  
    case '-':  
      displayValue = previousValue - currentValue;  
      break;  
    case '*':  
      displayValue = previousValue * currentValue;  
      break;  
    case '/':  
      displayValue = previousValue / currentValue;  
      break;  
  }
```

```
  operation = null;  
  pendingValue = "";
```

```
    updateDisplay();  
}
```

```
function calculateModulo() {  
    const currentValue = parseFloat(displayValue);  
    displayValue = currentValue / 100;  
    updateDisplay();  
}
```

```
function calculateSquare() {  
    const currentValue = parseFloat(displayValue);  
    displayValue = currentValue * currentValue;  
    updateDisplay();  
}
```

```
updateDisplay();
```

