

WT – Assignment-4

Code

index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Calculator</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="calculator">
    <h1>Calculator</h1>
    <p class="designer">(Designed by Kshitij)</p>
    <div class="display">
      <input type="text" id="result" readonly>
    </div>
    <div class="buttons">
      <button onclick="clearDisplay()">C</button>
      <button onclick="calculate('/')">/</button>
      <button onclick="calculate('*')">*</button>
      <button onclick="calculate('-')">-</button>
      <button onclick="addToDisplay('7')">7</button>
      <button onclick="addToDisplay('8')">8</button>
      <button onclick="addToDisplay('9')">9</button>
      <button onclick="calculate('+')">+</button>
      <button onclick="addToDisplay('4')">4</button>
      <button onclick="addToDisplay('5')">5</button>
      <button onclick="addToDisplay('6')">6</button>
      <button onclick="calculate('=')">=</button>
      <button onclick="addToDisplay('1')">1</button>
      <button onclick="addToDisplay('2')">2</button>
      <button onclick="addToDisplay('3')">3</button>
      <button onclick="addToDisplay('0')">0</button>
      <button onclick="addToDisplay('.')">.</button>
    </div>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

styles.css

```
body {
  font-family: Arial, sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
  background-color: #f0f0f0;
}

.calculator {
  background-color: #fff;
  padding: 20px;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  text-align: center;
}

.designer {
  font-size: 14px;
  color: #888;
  margin-top: 5px;
}

.display {
  margin-bottom: 10px;
}

.display input {
  width: 100%;
  font-size: 24px;
  padding: 5px;
  text-align: right;
  border: 1px solid #ccc;
  border-radius: 3px;
}

.buttons {
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  grid-gap: 5px;
}
```

```
.buttons button {
  font-size: 18px;
  padding: 10px;
  background-color: #f0f0f0;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
```

```
.buttons button:hover {
  background-color: #e0e0e0;
}
```

script.js

```
let currentValue = '';

function addToDisplay(value) {
  currentValue += value;
  document.getElementById('result').value = currentValue;
}

function clearDisplay() {
  currentValue = '';
  document.getElementById('result').value = '';
}

function calculate(operator) {
  if (operator === '=') {
    try {
      currentValue = eval(currentValue).toString();
      document.getElementById('result').value = currentValue;
    } catch (error) {
      alert('Invalid expression');
      clearDisplay();
    }
  } else {
    if (currentValue === '') {
      alert('Please enter a number');
      return;
    }
    currentValue += operator;
    document.getElementById('result').value = currentValue;
  }
}
```

Output

Calculator

29+16

C

/

*

-

7

8

9

+

4

5

6

=

1

2

3

0

.

Calculator

45

C

/

*

-

7

8

9

+

4

5

6

=

1

2

3

0

.