Mini Project Report - 06

Master of Computer Application – General
Semester – I

Sub: Front-End Frameworks And Technologies

Topic: CSS CALCULATOR

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INTRODUCTION :

The Calculator project is a simple yet effective demonstration of creating a functional user interface using HTML and CSS. The project is designed to resemble a modern digital calculator, showcasing a well-structured layout with a display section and interactive buttons for digits, operations, and special functions. With the help of CSS grid, buttons are neatly arranged to replicate the look and feel of a real calculator, while styling elements like colors, hover effects, and rounded corners make the design visually appealing.

This project serves as a practical application of front-end design skills, focusing on layout creation, button styling, and responsive alignment using CSS. It lays the foundation for building an interactive calculator when combined with JavaScript functionality.

INPUT CODE :

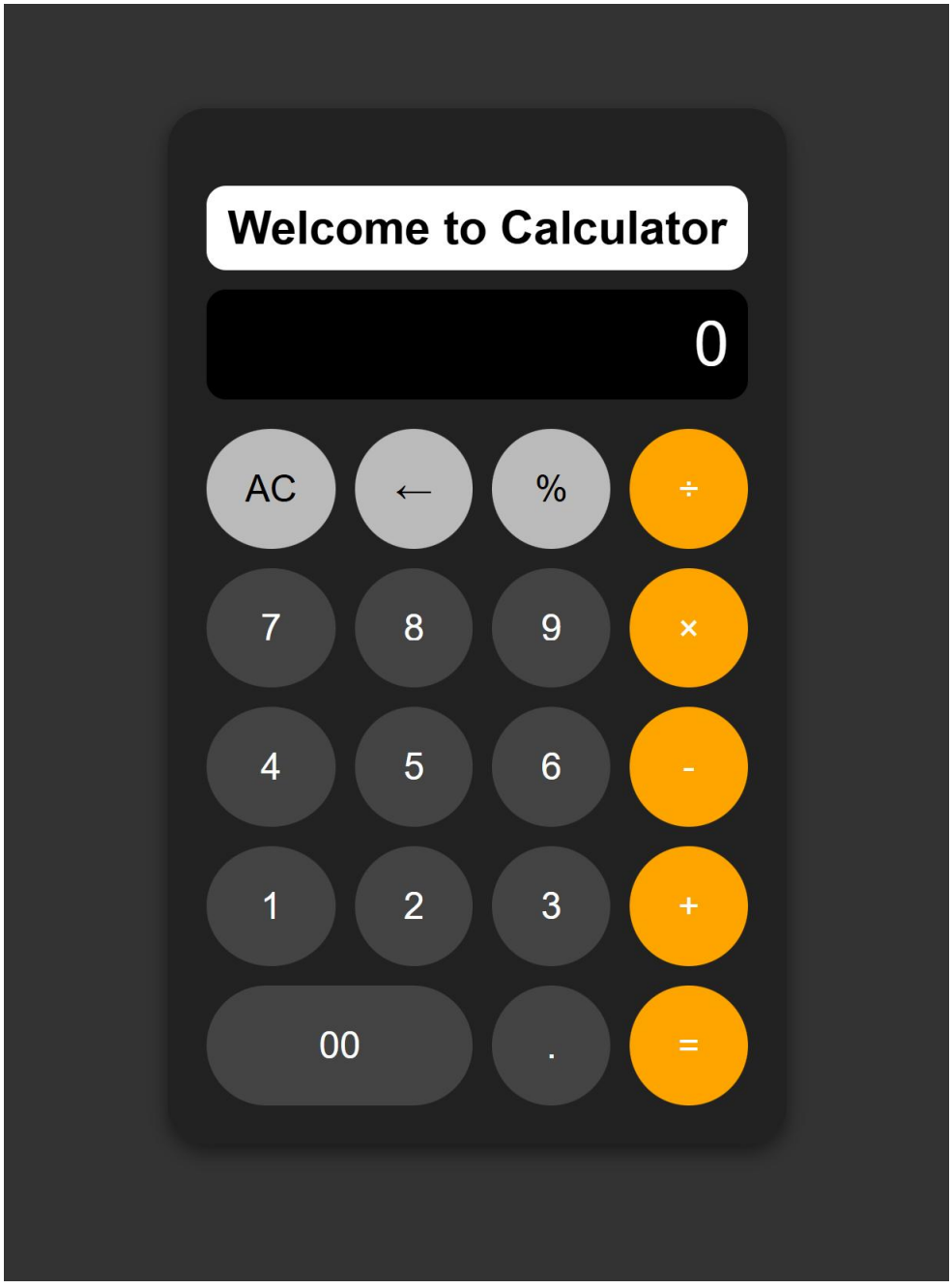
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculator</title>
  <style>
    body {
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background: #333;
      font-family: Arial, sans-serif;
    }

    .calculator {
      background: #222;
      padding: 20px;
      border-radius: 20px;
      box-shadow: 0 4px 10px rgba(0,0,0,0.5);
      width: 280px;
    }

    .calculator h2 {
```

```
  text-align: center;
  background: #fff;
  color: black;
  padding: 8px;
  border-radius: 10px;
  margin-bottom: 10px;
}

.display {
  background: black;
  color: white;
  font-size: 2em;
  text-align: right;
  padding: 10px;
  border-radius: 10px;
  margin-bottom: 15px;
}

.buttons {
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  gap: 10px;
}

button {
  padding: 20px;
  font-size: 1.2em;
```

```
    border: none;
    border-radius: 50%;
    cursor: pointer;
    transition: 0.2s;
   }

   button:hover {
    opacity: 0.8;
   }

   .gray { background: #bbb; }
   .dark { background: #444; color: white; }
   .orange { background: orange; color: white; }
   .wide {
    grid-column: span 2;   /* makes button 2 columns wide */
    border-radius: 50px;
   }
  </style>
</head>
<body>
  <div class="calculator">
   <h2>Welcome to Calculator</h2>
   <div class="display">0</div>
   <div class="buttons">
    <button class="gray">AC</button>
    <button class="gray">←</button>
    <button class="gray">%</button>
```

```
      <button class="orange">÷</button>

      <button class="dark">7</button>
      <button class="dark">8</button>
      <button class="dark">9</button>
      <button class="orange">×</button>

      <button class="dark">4</button>
      <button class="dark">5</button>
      <button class="dark">6</button>
      <button class="orange">-</button>

      <button class="dark">1</button>
      <button class="dark">2</button>
      <button class="dark">3</button>
      <button class="orange">+</button>

      <button class="dark wide">00</button>
      <button class="dark">.</button>
      <button class="orange">=</button>
    </div>
  </div>
</body>
</html>
```

OUTPUT :



CONCLUSION :

The Calculator project successfully demonstrates how HTML and CSS can be used to design a clean, structured, and user-friendly calculator interface. While this version primarily focuses on the visual design, it also emphasizes the importance of CSS techniques such as grid layouts, transitions, and theming to create realistic and attractive components.

Through this project, the understanding of UI design principles, alignment, and styling techniques is reinforced. It also highlights how even a simple calculator design can be enhanced with modern web technologies to make it interactive, engaging, and professional. Overall, this project provides a strong foundation for integrating JavaScript in the future to make the calculator fully functional.