Experiment – 15

Aim:- To design the scientific calculator and make event for each button using java script.

HTML Code:-

```
<html>
<head>
     <title>Scientific Calculator</title>
     <link rel="stylesheet" type="text/css" href="./styles.css">
</head>
<body>
     <div class="calculator">
           <input type="text" id="result" disabled>
           <button onclick="clearResult()">C</button>
           <button onclick="appendValue('(')">(</button>
           <button onclick="appendValue(')')">)</button>
           <button onclick="appendValue('/')">/</button>
           <button onclick="appendValue('7')">7</button>
           <button onclick="appendValue('8')">8</button>
           <button onclick="appendValue('9')">9</button>
           <button onclick="appendValue('*')">*</button>
           <button onclick="appendValue('4')">4</button>
           <button onclick="appendValue('5')">5</button>
           <button onclick="appendValue('6')">6</button>
           <button onclick="appendValue('-')">-</button>
           <button onclick="appendValue('1')">1</button>
           <button onclick="appendValue('2')">2</button>
           <button onclick="appendValue('3')">3</button>
           <button onclick="appendValue('+')">+</button>
           <button onclick="appendValue('0')">0</button>
           <button onclick="appendValue('.')">.</button>
           <button onclick="calculateResult()">=</button>
           <button onclick="appendValue('Math.PI')">π</button>
           <button onclick="appendValue('Math.E')">e</button>
           <button onclick="appendValue('Math.sqrt(')">V</button>
           <button onclick="appendValue('Math.pow(')">^</button>
           <button onclick="appendValue('#')">#</button>
     </div>
           <script src="./script.js"></script>
</body>
</html>
```

CSS Code:-

```
.calculator {
           width: 280px;
           height: 400px;
           margin: 0 auto;
           border: 2px solid #06d0f8;
           border-radius: 10px;
           display: grid;
           grid-template-columns: repeat(4, 1fr);
           grid-gap: 5px;
           padding: 10px;
     }
     input[type="text"] {
           grid-column: 1 / span 4;
           font-size: 24px;
           text-align: right;
           background-color: #08e7d893;
           padding: 10px;
     button {
           background-color: #08e7d893;
           border: 1px solid #0bfaee;
           border-radius: 5px;
           font-size: 20px;
           cursor: pointer;
           outline: none;
           transition: background-color 0.3s ease-in-out;
     button:hover {
           background-color: #e71313;
           border: 1px solid #fa4b0b;
     }
JS Code:-
           let result = document.getElementById('result');
           function appendValue(value) {
                result.value += value;
           }
           function clearResult() {
                result.value = '';
           }
           function calculateResult() {
                let expression = result.value;
                let answer = eval(expression);
                result.value = answer;
           }
```

Output:-

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