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Branch & Sem: CSE-A IV Sem

Batch: A-2

Practical No. 5

Aim:

Design a calculator to perform basic operations using JavaScript. Add two buttons: Clear, +/- (to represent positive and negative number)

Code:

Calculator.html

```
<!DOCTYPE html>
<html lang="en">
 <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link href="style.css" rel="stylesheet" />
    <title>Calculator</title>
  </head>
  <body>
    <h2>Calculator</h2>
    <div class="cal">
      <textarea rows="5" cols="25" name="space" class="txt"> </textarea>
      <button href="#">7</button>
      <button href="#">8</button>
      <button href="#">9</button>
      <button href="#" class="op" class="key--operator" data-action="divide">
      </button>
      <button href="#">4</button>
      <button href="#">5</button>
      <button href="#">6</button>
      <button href="#" class="op" class="key--operator" data-</pre>
action="multiply">
      </button>
      <button href="#">1</button>
      <button href="#">2</button>
      <button href="#">3</button>
      <button href="#" class="op" class="key--operator" data-</pre>
action="subtract">
```

```
</button>
     <button
       href="#"
       style="background-color: rgb(218, 11, 11)"
       data-action="clear"
       AC
     </button>
     <button href="#">0</button>
     <button
       href="#"
       style="background-color: rgb(218, 11, 11)"
       class="key--equal"
       data-action="calculate"
     </button>
     <button href="#" class="op" class="key--operator" data-action="add">
     </button>
   </div>
 </body>
</html>
<script>
 const calculator = document.querySelector(".cal");
 const buttons = calculator.querySelectorAll("button");
 buttons.forEach((button) => {
   button.addEventListener("click", () => {
     const buttonValue = button.textContent;
     switch (button.dataset.action) {
       case "clear":
         textarea.value =
         break;
       case "calculate":
         calculate();
         break;
       default:
         textarea.value += buttonValue;
     }
   });
 });
 function calculate() {
```

```
try {
    const expression = textarea.value;
    const result = eval(expression);

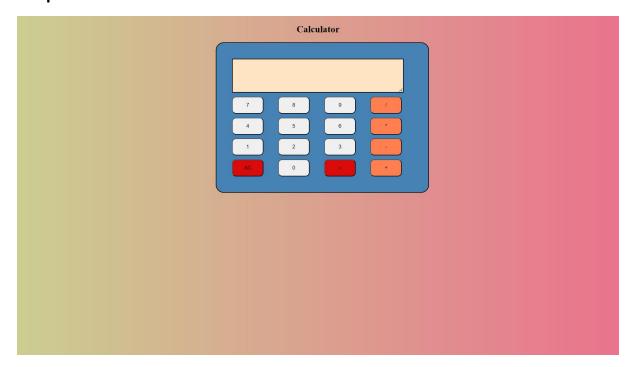
    textarea.value = result;
} catch (error) {
    textarea.value = "Error";
}
}
</script>
```

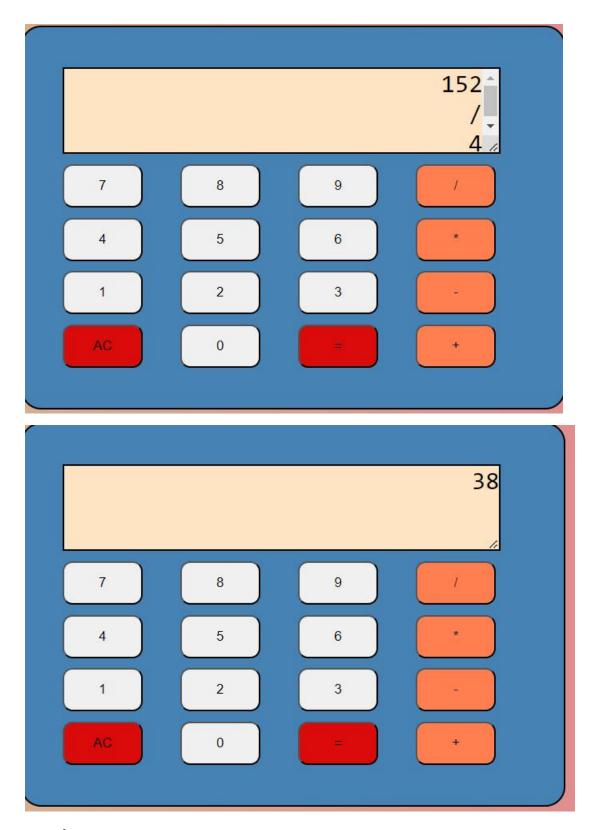
Style.css

```
margin: 0;
 padding: 0;
h2 {
 text-align: center;
 margin: 20px;
body {
 background: linear-gradient(to right, #cbce91ff, #ea738dff);
.cal {
 display: grid;
 grid-template-columns: 1fr 1fr 1fr;
 grid-template-rows: 2fr 1fr 1fr 1fr;
 gap: 10px;
 background-color: steelblue;
 padding: 40px;
 border-radius: 20px;
 width: 30%;
 margin: 20px 33%;
 height: 300px;
 justify-content: center;
 border: 2px solid black;
button {
 width: 80px;
 border-radius: 10px;
 /* background-color:; */
 box-shadow: 20px;
button:hover {
 transform: scale(1.1);
```

```
.txt {
  grid-column: 1/5;
  width: 435px;
  background-color: bisque;
  border: 2px solid black;
  font-size: 25px;
  text-align: end;
  text-align: bottom;
}
.txt:active {
  border: none;
}
.op {
  background-color: coral;
}
```

Output:





Result:

Implemented a Fully functioning calculator using HTML, CSS and Javascript.