index.html

```html
<html lang='en'>
<head>
 <meta charset='UTF-8'>
 <meta name='viewport''content='width=device-width, initial-scale=1.0'>
 <meta http-equiv='X-UA-Compatible' content='ie=edge'>
 <title>Build a JavaScript Calculator</title>
 <link href="https://fonts.googleapis.com/css?family=Orbitron" rel="stylesheet">
 <link rel="stylesheet" href="backend.js" type="text/Javascript">
 <link rel="stylesheet" href="style.css" type="text/css">
</head>
<body>
  <div class="container">
    <h1 id="h1"> Calculator</h1>
    <input id="input" type="text" name="output" >
    <table>
      <tr>
        <td><button class="secondarybtn">(</button></td>
        <td><button class="secondarybtn">)</button></td>
        <td><button id="backbtn" class="secondarybtn">DEL</button></td>
        <td><button id="clrbtn" class="secondarybtn" onclick="defaultColor('white')">AC</button></td>
      </tr>
      <tr>
        <td><button class="secondarybtn">&#177</button></td>
        <td><button class="secondarybtn" onclick="decimalInputAlert()">.</button></td>
        <td><button class="secondarybtn">%</button></td>
        <td><button class="secondarybtn">&#8730</button></td>
```

```html
        </tr>
        <tr>
          <td><button>7</button></td>
          <td><button>8</button></td>
          <td><button>9</button></td>
          <td><button class="secondarybtn" onclick="divAlert()">&#247</button></td>
        </tr>
        <tr>
          <td><button>4</button></td>
          <td><button>5</button></td>
          <td><button>6</button></td>
          <td><button class="secondarybtn" onclick="mulAlert()">&#215</button></td>
        </tr>
        <tr>
          <td><button>1</button></td>
          <td><button>2</button></td>
          <td><button>3</button></td>
          <td><button class="secondarybtn" onclick="subAlert()">-</button></td>
        </tr>
        <tr>
          <td><button>00</button></td>
          <td><button>0</button></td>
          <td><button id="equals" class="ansbtn" onclick="check();changeOutputColor('red')"
>=</button></td>
          <td><button class="secondarybtn" onclick="additionAlert()">+ </button></td>
        </tr>
      </table>
      <p id="footer">Made by <a href="https://www.linkedin.com/in/akshat-pattiwar">Akshat Pattiwar</a> |
<a href="https://github.com/Akshatpattiwar512">Visit
        Github Repository</a> </p>
    </div>
</body>
<script src="backend.js"></script>
</html>
```

style.css

```css
.container {
  text-align : center;
  max-width: 100%;

}

table{
margin : auto;
 }

button{
  width: 147px;
  height: 64.5px;
  margin: 3px;
  border-radius: 5px;
  border: 1px solid #f1f3f4;
  background-color: #f1f3f4;
  font-size: 25px;
  cursor: pointer;

}

button:active{
  border : 2px solid #dce5e9;
}

#input{
  width: 594px;
  height: 77px;
  margin-bottom:  10px;
  border-radius: 5px;
```

```css
    border: 1px solid #d4dce0;;

    font-size: 35px;

    padding: 0px 10px;

    text-align: right;

}


  .secondarybtn{

    background-color:#dadce0;

  }
  .ansbtn {


    background-color: #4285f4;

    font-weight: 700;

    color: white;



  }


  #backbtn{


    background-color: #dadce0;

    text-decoration-color: #dadce0;

  }


  @media screen and (max-width: 800px) {
   button{
    width: 15vw;

    font-size: 4vw;


   }
   #input{

     width: 61vw;
```

```css
        }
      #h1{

        font-size: 6vw;

        }


      div #footer{

          font-size: 2vw;

      }
    }


    div #footer{

      margin-top: 50px;

    }
```

backend.js

```javascript
let screen = document.getElementById('input');

evalValue = "";

screenData = "";

screen.value = "0";

buttons = document.querySelectorAll('button');

for (item of buttons) {

    item.addEventListener('click', function (e) {

        buttonValue = e.target.innerText;


        if (buttonValue == String.fromCharCode(215)) {

            screenData += String.fromCharCode(215);

            buttonValue = '*';

            evalValue += buttonValue;

            screen.value = screenData;
```

```javascript
}

else if (buttonValue == String.fromCharCode(247)) {

   screenData += String.fromCharCode(247);

   buttonValue = '/';

   evalValue += buttonValue;

   screen.value = screenData;

}

else if (buttonValue == "=") {


   length = evalValue.length;

   console.log(length);


   if (evalValue == "") {


   }


   else if((evalValue.charAt(evalValue.length-1) == "%")){


      console.log("before eval screendata  " + screenData);

      console.log("before eval evalvalue  " + evalValue);

      evalValue = evalValue.substring(0, length-1);

      screen.value = eval(evalValue)/100;

      evalValue = screen.value;

      screenData = screen.value;

      console.log("after eval screendata  " + screenData);

      console.log("before eval evalvalue  " + evalValue)


   }
```

```javascript
    else{

      console.log("before eval screendata  " + screenData);

      console.log("before eval evalvalue  " + evalValue);

      screen.value = eval(evalValue);

      evalValue = screen.value;

      screenData = screen.value;

      console.log("after eval screendata  " + screenData);

      console.log("before eval evalvalue  " + evalValue);

    }

}

else if (buttonValue == "DEL") {

  if (screen.value == "0") {


  }
  else {

    size = screen.value.length;

    screen.value = screen.value.substring(0, size - 1);

    evalValue = evalValue.substring(0, size - 1);

    screenData = screen.value;

  }

}

else if (buttonValue == "AC") {

  screenData = "";

  screen.value = "0";

  evalValue = "";


}

else if (buttonValue == String.fromCharCode(8730)) {
```

```javascript
            screenData += (String.fromCharCode(8730) + "(");
            buttonValue = 'Math.sqrt(';
            evalValue += buttonValue;
            screen.value = screenData;
        }


        else if (buttonValue == String.fromCharCode(177)) {
            console.log("clicked +-");


            if (evalValue == "0") {
            }


            else {


                screenData = -parseFloat(screenData);
                buttonValue = '';
                evalValue = -parseFloat(evalValue);;
                screen.value = screenData;


            }


        }


        else {
            screenData += buttonValue;
            evalValue += buttonValue;
            screen.value = screenData;
        }
    })
}
function additionAlert() {
    alert("Performing addition operation");
```

```javascript
}
function subAlert() {
  alert("Performing subtraction operation");
}
function mulAlert() {
  alert("Performing multiplication operation");
}
function divAlert() {
  alert("Performing division operation");
}
function decimalInputAlert() {
   alert("Input contains decimal values");
 }
function changeOutputColor(color){
   document.getElementById("input").style.background = color;
}
function defaultColor(color){
   document.getElementById("input").style.background = color;
}
function check()
{
var re = /^[-+]?[0-9]+\.[0-9]+$/;
let found = screenData.match( re )?true:false
if(found==true)
{
   window.alert("Output contains decimal value");
}
window.alert(found);
}
// window.alert(screen.value)
  console.log(buttons);
```
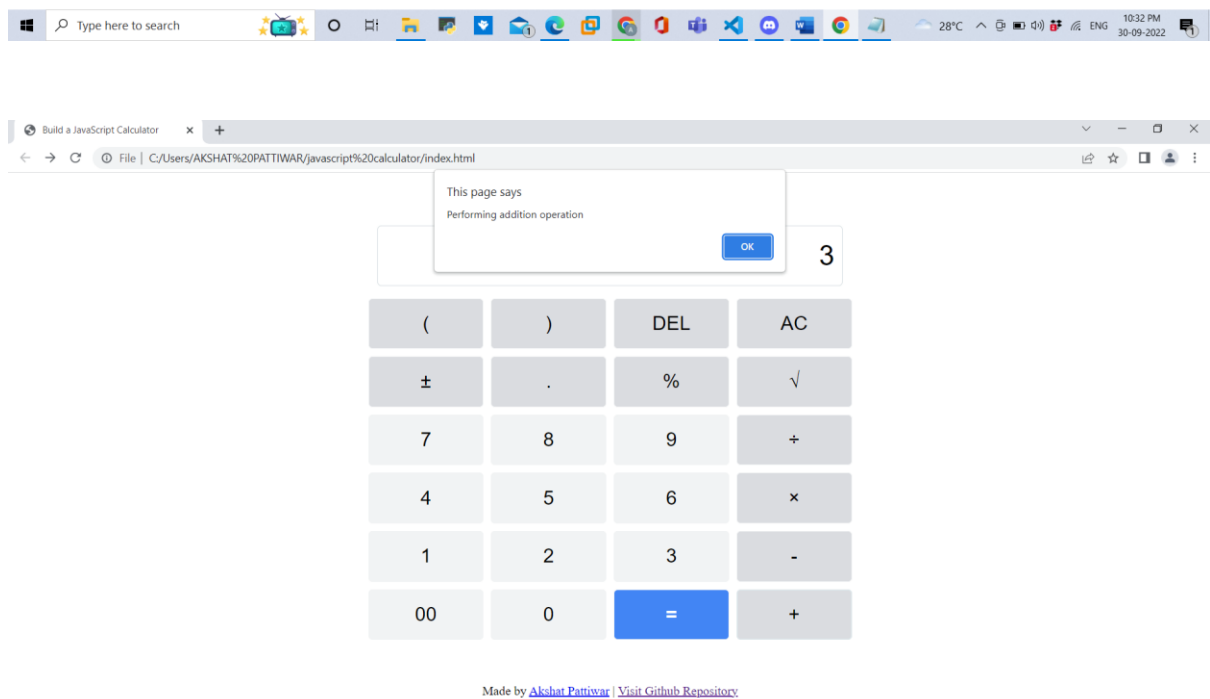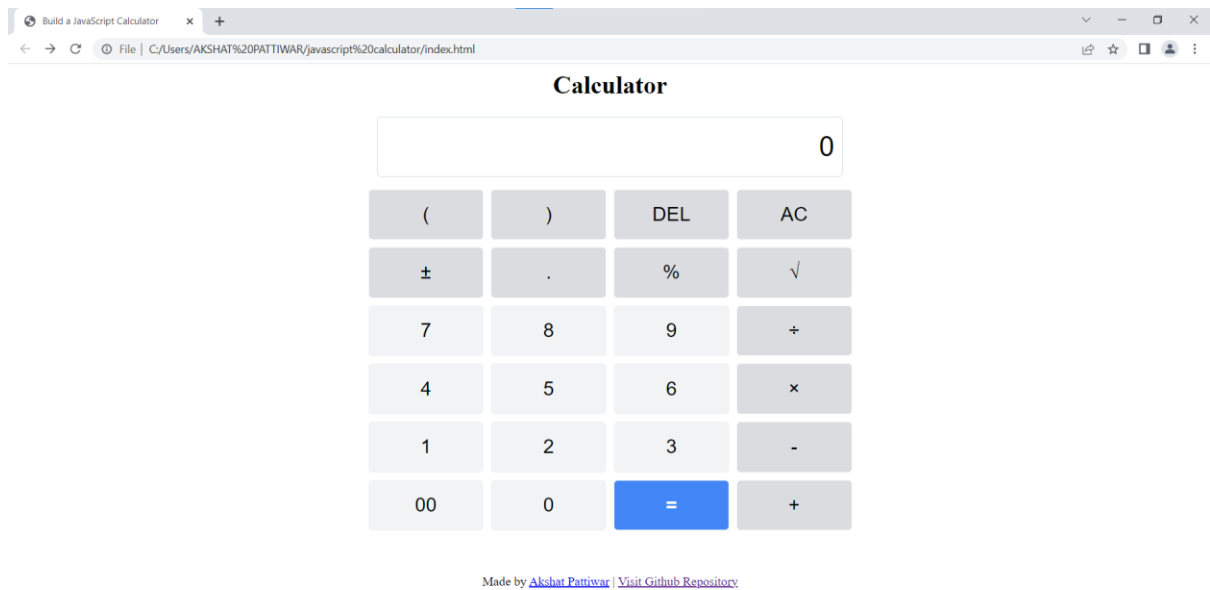
Calculator

			3+6

(	)	DEL	AC
±	.	%	√
7	8	9	÷
4	5	6	×
1	2	3	-
00	0	=	+

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Calculator

			9

(	)	DEL	AC
±	.	%	√
7	8	9	÷
4	5	6	×
1	2	3	-
00	0	=	+

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