CALCULATOR

Index.html

```html
<html>
    <head>
        <link rel="stylesheet" type="text/css" href="style.css">
        <link
href="https://fonts.googleapis.com/css?family=Open+Sans:600,700"
rel="stylesheet">
        <title>A simple calculator</title>
    </head>
    <body>
        <div id="container">
            <div id="calculator">
                <div id="result">
                    <div id="history">
                        <p id="history-value"></p>
                    </div>
                    <div id="output">
                        <p id="output-value"></p>
                    </div>
                </div>
                <div id="keyboard">
                    <button class="operator" id="clear">C</button>
                    <button class="operator" id="backspace">CE</button>
                    <button class="operator" id="%">%</button>
                    <button class="operator" id="/">&#247;</button>
                    <button class="number" id="7">7</button>
                    <button class="number" id="8">8</button>
                    <button class="number" id="9">9</button>
                    <button class="operator" id="*">&times;</button>
                    <button class="number" id="4">4</button>
                    <button class="number" id="5">5</button>
                    <button class="number" id="6">6</button>
                    <button class="operator" id="-">-</button>
                    <button class="number" id="1">1</button>
                    <button class="number" id="2">2</button>
                    <button class="number" id="3">3</button>
                    <button class="operator" id="+">+</button>
```

```html
                    <button class="empty" id="empty"></button>
                    <button class="number" id="0">0</button>
                    <button class="empty" id="empty"></button>
                    <button class="operator" id="=">=</button>
                </div>
            </div>
        </div>
        <script src="script.js"></script>
    </body>
</html>
```

Script.js

```javascript
function getHistory(){
    return document.getElementById("history-value").innerText;
}
function printHistory(num){
    document.getElementById("history-value").innerText=num;
}
function getOutput(){
    return document.getElementById("output-value").innerText;
}
function printOutput(num){
    if(num==""){
        document.getElementById("output-value").innerText=num;
    }
    else{

document.getElementById("output-value").innerText=getFormattedNumber(num);
    }
}
function getFormattedNumber(num){
    if(num=="-"){
        return "";
    }
    var n = Number(num);
    var value = n.toLocaleString("en");
    return value;
}
function reverseNumberFormat(num){
```

```javascript
        return Number(num.replace(/,/g,''));
}
var operator = document.getElementsByClassName("operator");
for(var i =0;i<operator.length;i++){
    operator[i].addEventListener('click',function(){
        if(this.id=="clear"){
            printHistory("");
            printOutput("");
        }
        else if(this.id=="backspace"){
            var output=reverseNumberFormat(getOutput()).toString();
            if(output){//if output has a value
                output= output.substr(0,output.length-1);
                printOutput(output);
            }
        }
        else{
            var output=getOutput();
            var history=getHistory();
            if(output==""&&history!=""){
                if(isNaN(history[history.length-1])){
                    history= history.substr(0,history.length-1);
                }
            }
            if(output!="" || history!=""){
                output= output==""?output:reverseNumberFormat(output);
                history=history+output;
                if(this.id=="="){
                    var result=eval(history);
                    printOutput(result);
                    printHistory("");
                }
                else{
                    history=history+this.id;
                    printHistory(history);
                    printOutput("");
                }
            }
        }
```

```
        });
    }
var number = document.getElementsByClassName("number");
for(var i =0;i<number.length;i++){
    number[i].addEventListener('click',function(){
        var output=reverseNumberFormat(getOutput());
        if(output!=NaN){ //if output is a number
            output=output+this.id;
            printOutput(output);
        }
    });
}
```

Style.css

```css
body{
    font-family: 'Open Sans',sans-serif;
    background-color: black;
}
#container{
    width: 1000px;
    height: 550px;
    background-image: linear-gradient(rgba(0,0,0,0.3),rgba(0,0,0,0.3)),
url(https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcR56EnyRe9zwzx6uT
Fjw_MxPHwPRPZSQN5umNjbduSNYll5uV6SVEe4OBYEdOenvDOEl5s&usqp=CAU);
    margin: 20px auto;
}
#calculator{
    width: 320px;
    height: 520px;
    background-color: #eaedef;
    margin: 0 auto;
    top: 20px;
    position: relative;
    border-radius: 5px;
    box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0,
0.19);
}
#result{
    height: 120px;
```

```css
}
#history{
    text-align: right;
    height: 20px;
    margin: 0 20px;
    padding-top: 20px;
    font-size: 15px;
    color: #919191;
}
#output{
    text-align: right;
    height: 60px;
    margin: 10px 20px;
    font-size: 30px;
}
#keyboard{
    height: 400px;
}
.operator, .number, .empty{
    width: 50px;
    height: 50px;
    margin: 15px;
    float: left;
    border-radius: 50%;
    border-width: 0;
    font-weight: bold;
    font-size: 15px;
}
.number, .empty{
    background-color: #eaedef;
}
.number, .operator{
    cursor: pointer;
}
.operator:active, .number:active{
    font-size: 13px;
}
.operator:focus, .number:focus, .empty:focus{
    outline: 0;
}
```

```css
button:nth-child(4){
    font-size: 20px;
    background-color: #20b2aa;
}
button:nth-child(8){
    font-size: 20px;
    background-color: #ffa500;
}
button:nth-child(12){
    font-size: 20px;
    background-color: #f08080;
}
button:nth-child(16){
    font-size: 20px;
    background-color: #7d93e0;
}
button:nth-child(20){
    font-size: 20px;
    background-color: #9477af;
}

@media (max-width:991px){

    /* nav {
        height:150%;
        width: 100%;
    } */
    #imgt{
        height:200px;
        width:300px;
    }
    #calculator{
        width: 320px;
        height: 520px;
    }
    /* .newcont{
        width:200%;
        height:200%;
    } */

}
```