



CALCULADORA SIMPLES COM JAVA SCRIPT

Prof. Anderson e Prof^a.
Cíntia

Criar a estrutura básica HTML



<> index.html X

<> index.html > html > body > div.fundo > div.calculadora > p#resultado

```
1  <!DOCTYPE html>
2  <html lang="pt-br">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta http-equiv="X-UA-Compatible" content="IE=edge">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <title>Calculadora</title>
9      <link rel="stylesheet" href="css/estilo.css">
10 </head>
11
12 <body>
13
14     <div class="fundo">
15         <h1>Calculadora Simples com Java Script</h1>
16         <div class="calculadora">
17             <h1>Calculadora</h1>
18             <p id="resultado"></p>
19             <table>
20                 <tr>
21                     <td><button class="botao" onclick="limpar()">C</button></td>
22                     <td><button class="botao" onclick="voltar()"><</button></td>
23                     <td><button class="botao" onclick="insere('/')">/</button></td>
24                     <td><button class="botao" onclick="insere('*')">X</button></td>
25                 </tr>
26                 <tr>
27                     <td><button class="botao" onclick="insere('7')">7</button></td>
28                     <td><button class="botao" onclick="insere('8')">8</button></td>
29                     <td><button class="botao" onclick="insere('9')">9</button></td>
30                     <td><button class="botao" onclick="insere('-')">-</button></td>
31                 </tr>
32                 <tr>
33                     <td><button class="botao" onclick="insere('4')">4</button></td>
34                     <td><button class="botao" onclick="insere('5')">5</button></td>
```

<> index.html X

<> index.html > html > body > div.fundo > div.calculadora > table > tr

```
13
14     <div class="fundo">
15         <h1>Calculadora Simples com Java Script</h1>
16         <div class="calculadora">
17             <h1>Calculadora</h1>
18             <p id="resultado"></p>
19             <table>
20                 <tr>
21                     <td><button class="botao" onclick="limpar()">C</button></td>
22                     <td><button class="botao" onclick="voltar()"><</button></td>
23                     <td><button class="botao" onclick="insere('/')">/</button></td>
24                     <td><button class="botao" onclick="insere('*')">X</button></td>
25                 </tr>
26                 <tr>
27                     <td><button class="botao" onclick="insere('7')">7</button></td>
28                     <td><button class="botao" onclick="insere('8')">8</button></td>
29                     <td><button class="botao" onclick="insere('9')">9</button></td>
30                     <td><button class="botao" onclick="insere('-')">-</button></td>
31                 </tr>
32                 <tr>
33                     <td><button class="botao" onclick="insere('4')">4</button></td>
34                     <td><button class="botao" onclick="insere('5')">5</button></td>
35                     <td><button class="botao" onclick="insere('6')">6</button></td>
36                     <td><button class="botao" onclick="insere('+')">+</button></td>
37                 </tr>
38                 <tr>
39                     <td><button class="botao" onclick="insere('1')">1</button></td>
40                     <td><button class="botao" onclick="insere('2')">2</button></td>
41                     <td><button class="botao" onclick="insere('3')">3</button></td>
42                     <td rowspan="2"><button class="botao" style="height: 106px;" onclick="calcular()">=</button></td>
43                 </tr>
44                 <tr>
45                     <td colspan="2"><button class="botao" onclick="insere('0')" style="width: 106px;">0</button></td>
46                     <td><button class="botao" onclick="insere('.')">.</button></td>
47                 </tr>
48             </table>
49         </div>
50     </div>
51     <script src="js/calculadora.js"></script>
52 </body>
53
54 </html>
```



Calculadora



Arquivo | C:/Users/Anderson/Desktop/calculadora/index.html



Calculadora Simples com Java Script

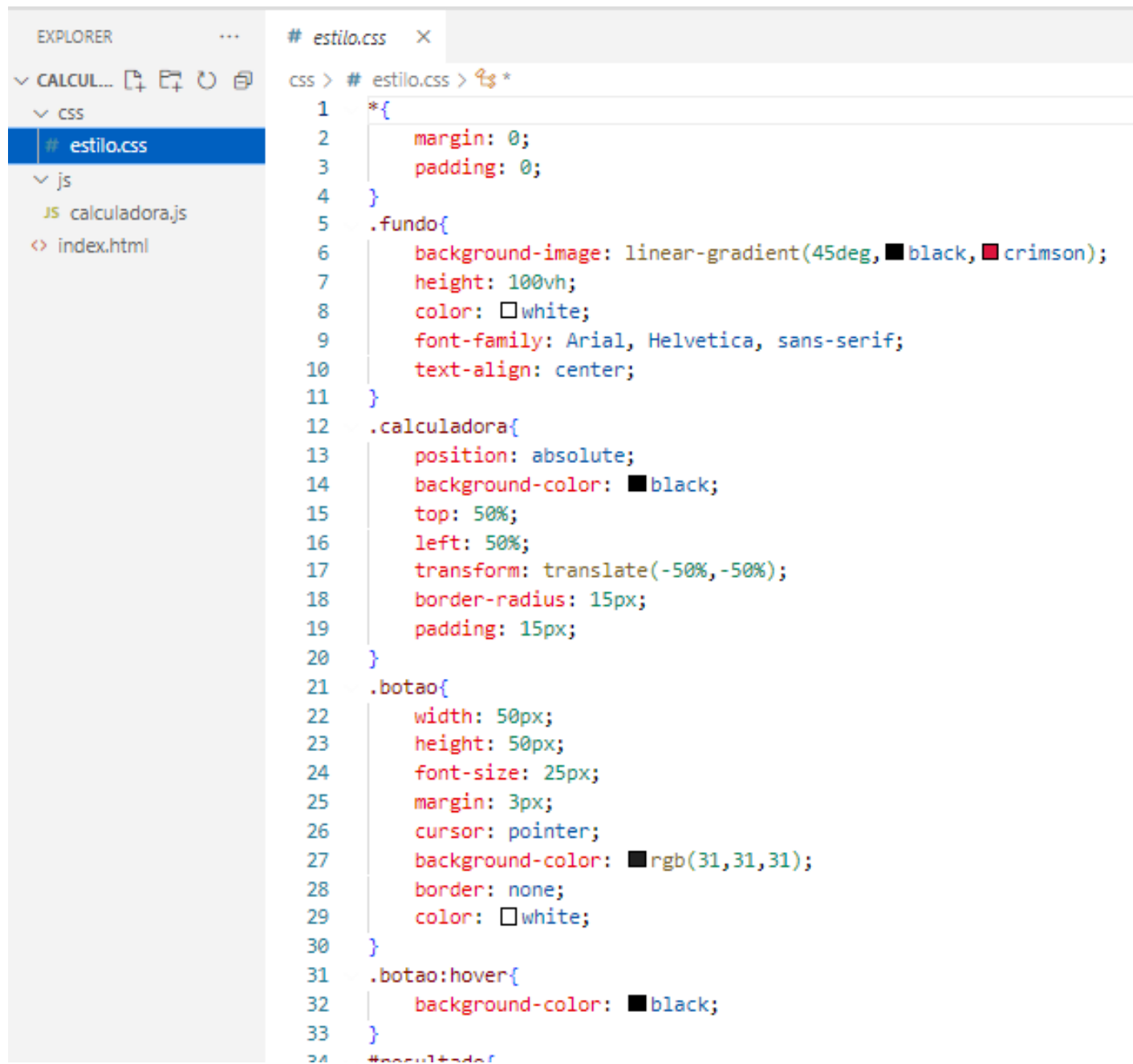
Calculadora

C	<	/	X
7	8	9	-
4	5	6	+
1	2	3	=
0	.		

Criando o css

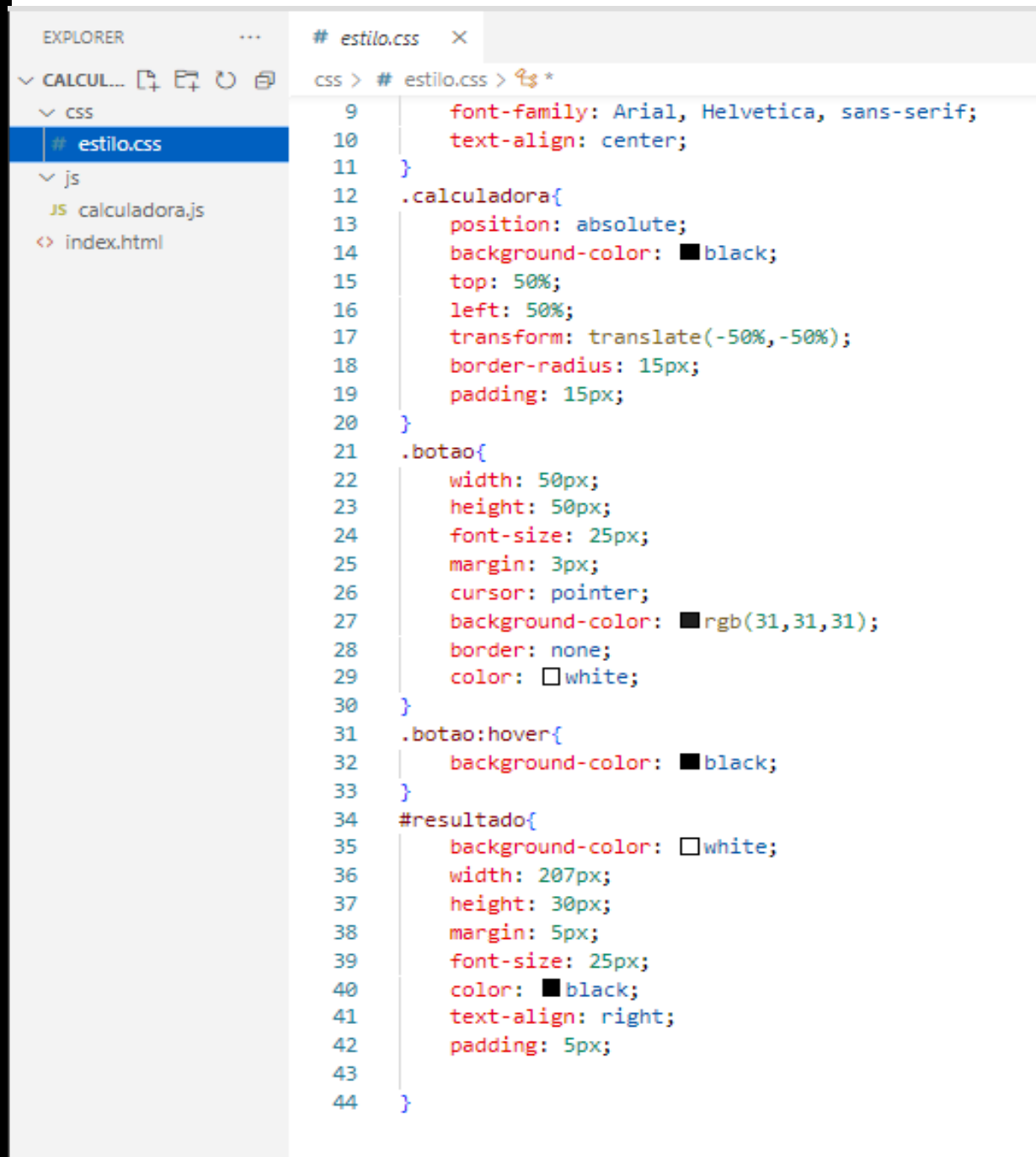


Criando o CSS

A screenshot of a code editor interface. On the left is the 'EXPLORER' sidebar showing a file tree with folders 'css' and 'js', and files 'calculadora.js' and 'index.html'. The 'css' folder is expanded, and 'estilo.css' is selected. On the right is the main editor window showing the content of 'estilo.css'. The code defines a root selector, a background gradient for the body, and styles for a calculator container and buttons.

```
# estilo.css
css > # estilo.css > *
1  *{
2      margin: 0;
3      padding: 0;
4  }
5  .fundo{
6      background-image: linear-gradient(45deg, black, crimson);
7      height: 100vh;
8      color: white;
9      font-family: Arial, Helvetica, sans-serif;
10     text-align: center;
11 }
12 .calculadora{
13     position: absolute;
14     background-color: black;
15     top: 50%;
16     left: 50%;
17     transform: translate(-50%, -50%);
18     border-radius: 15px;
19     padding: 15px;
20 }
21 .botao{
22     width: 50px;
23     height: 50px;
24     font-size: 25px;
25     margin: 3px;
26     cursor: pointer;
27     background-color: rgb(31,31,31);
28     border: none;
29     color: white;
30 }
31 .botao:hover{
32     background-color: black;
33 }
34 #resultado{
```

Criando o CSS

A screenshot of a code editor interface. On the left is the 'EXPLORER' sidebar showing a file tree with folders 'css' and 'js', and files 'estilo.css', 'calculadora.js', and 'index.html'. The 'estilo.css' file is selected. The main editor area shows the content of 'estilo.css' with line numbers from 9 to 44. The code defines styles for a calculator, including a root selector for font and text alignment, a '.calculadora' class for absolute positioning and styling, a '.botao' class for button styling and a hover effect, and a '#resultado' class for the result display.

```
9      font-family: Arial, Helvetica, sans-serif;
10     text-align: center;
11 }
12 .calculadora{
13     position: absolute;
14     background-color: black;
15     top: 50%;
16     left: 50%;
17     transform: translate(-50%,-50%);
18     border-radius: 15px;
19     padding: 15px;
20 }
21 .botao{
22     width: 50px;
23     height: 50px;
24     font-size: 25px;
25     margin: 3px;
26     cursor: pointer;
27     background-color: rgb(31,31,31);
28     border: none;
29     color: white;
30 }
31 .botao:hover{
32     background-color: black;
33 }
34 #resultado{
35     background-color: white;
36     width: 207px;
37     height: 30px;
38     margin: 5px;
39     font-size: 25px;
40     color: black;
41     text-align: right;
42     padding: 5px;
43 }
44 }
```

Calculadora

C

<

/

x

7

8

9

-

4

5

6

+

1

2

3

=

0

.

Perceba, que podemos colocar os mesmos efeitos à todos os botões da calculadora, então atribuímos uma classe para todos os botões

Para cada botão vamos chamar pelo método onclick a chamada de uma função passando um valor. Faça para todos os botões que tenham números

Faça uma função por vez e teste.

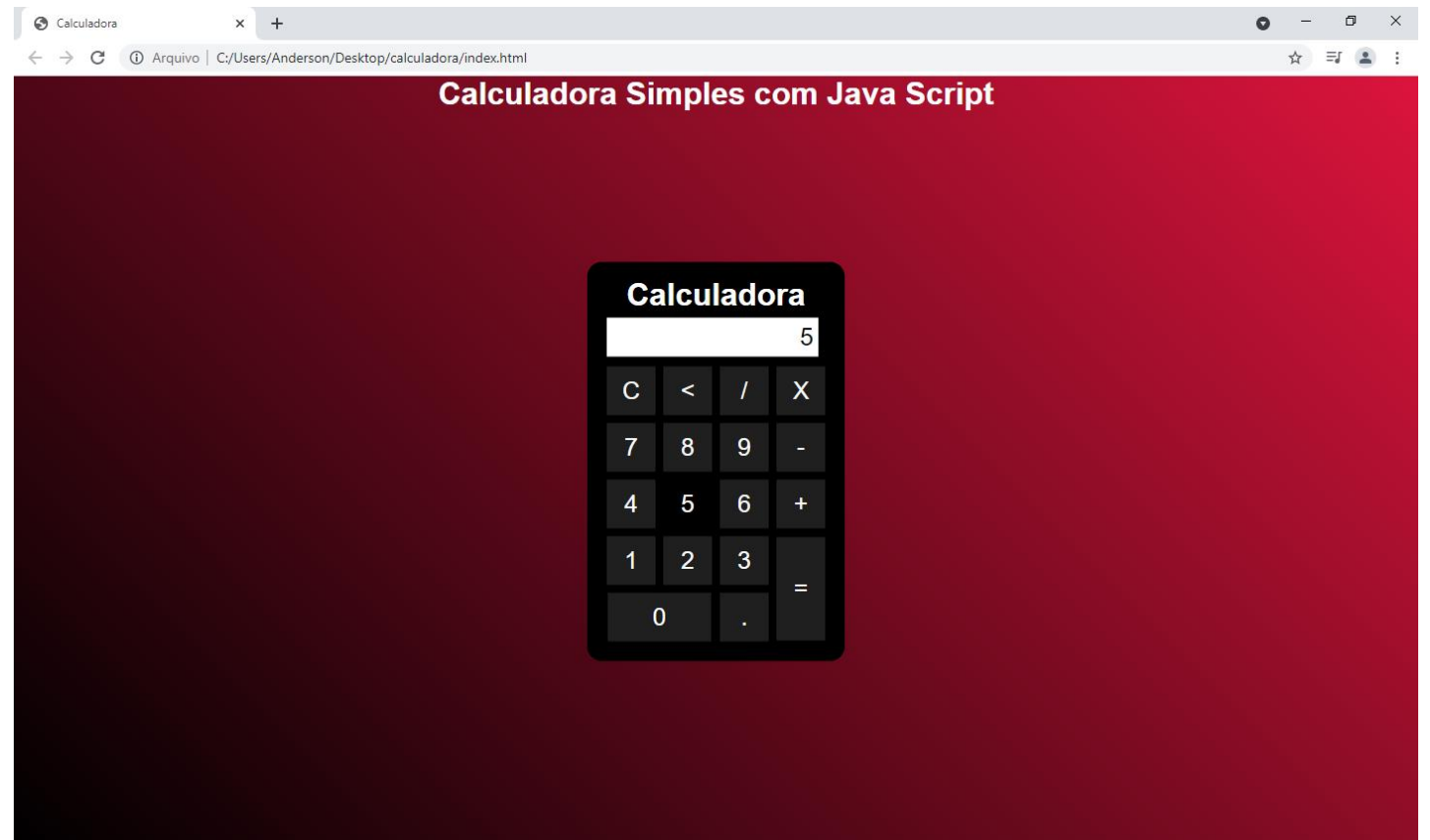
Javascript



The image shows a screenshot of a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders 'css' and 'js', and files 'estilo.css', 'calculadora.js', and 'index.html'. The 'calculadora.js' file is selected. The code editor shows the following JavaScript code:

```
js > JS calculadora.js > calcular
1 function insere(numero){
2     var valor = document.getElementById('resultado').innerHTML;
3     document.getElementById('resultado').innerHTML = valor + numero;
4 }
5
6 function limpar(){
7     document.getElementById('resultado').innerHTML = "";
8 }
9
10
11 function voltar(){
12     var resultado = document.getElementById('resultado').innerHTML;
13     document.getElementById('resultado').innerHTML = resultado.substring(0,resultado.length -1);
14 }
15
16 function calcular(){
17     var resultado = document.getElementById('resultado').innerHTML;
18     if(resultado){
19         document.getElementById('resultado').innerHTML = eval(resultado);
20     }
21     else{
22         document.getElementById('resultado').innerHTML = "Nada ...";
23     }
24 }
25
26
```

**Crie uma
função
chamada
insere no
seu script**



Teste sua calculadora

