

Bootstrap

Formulários

1. O código abaixo monta um formulário utilizando classes do Bootstrap.

```
aula12a - form.html

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, shrink-to-fit=no">
8
9      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="s
      tylesheet" integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjzrPF/et3URy9Bv1WTRi"
      crossorigin="anonymous">
10
11      <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/
      all.min.css" crossorigin="anonymous">
12
13      <title>Formulário de Cadastro</title>
14  </head>
15
16  <body>
17      <div class="container">
18          <form method="post" action="#" class="was-validated">
19              <h2 class="alert alert-info" style="margin-top: 0.5rem">Formulário de Cadastro</h2>
20              <div class="form-group mb-3">
21                  <label for="nome">Nome:</label>
22                  <input type="text" name="fNome" id="iNome" class="form-control"
23                      placeholder="Fulano da Silva" required>
24                  <small class="form-text text-muted">Digite seu nome</small>
25              </div>
26
27              <div class="form-group mb-3">
28                  <label for="senha">Senha:</label>
29                  <input type="password" name="fSenha" id="iSenha" class="form-control"
30                      placeholder="Digite sua senha" required>
31                  <small class="form-text text-muted">Digite sua senha</small>
32              </div>
33
34              <div class="form-group mb-3 text-center">
35                  <button type="submit" class="btn btn-primary">
36                      <i class="fa-solid fa-pen-to-square"></i>
37                      Cadastrar
38                  </button>
39              </div>
40          </form>
41      </div>
42
43      <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
44          integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJua0e923+mo//f6V8Qbsw3"
45          crossorigin="anonymous"></script>
46  </body>
47
48  </html>
```

```
<!DOCTYPE html>
<html lang="pt-BR">
<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">

  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">

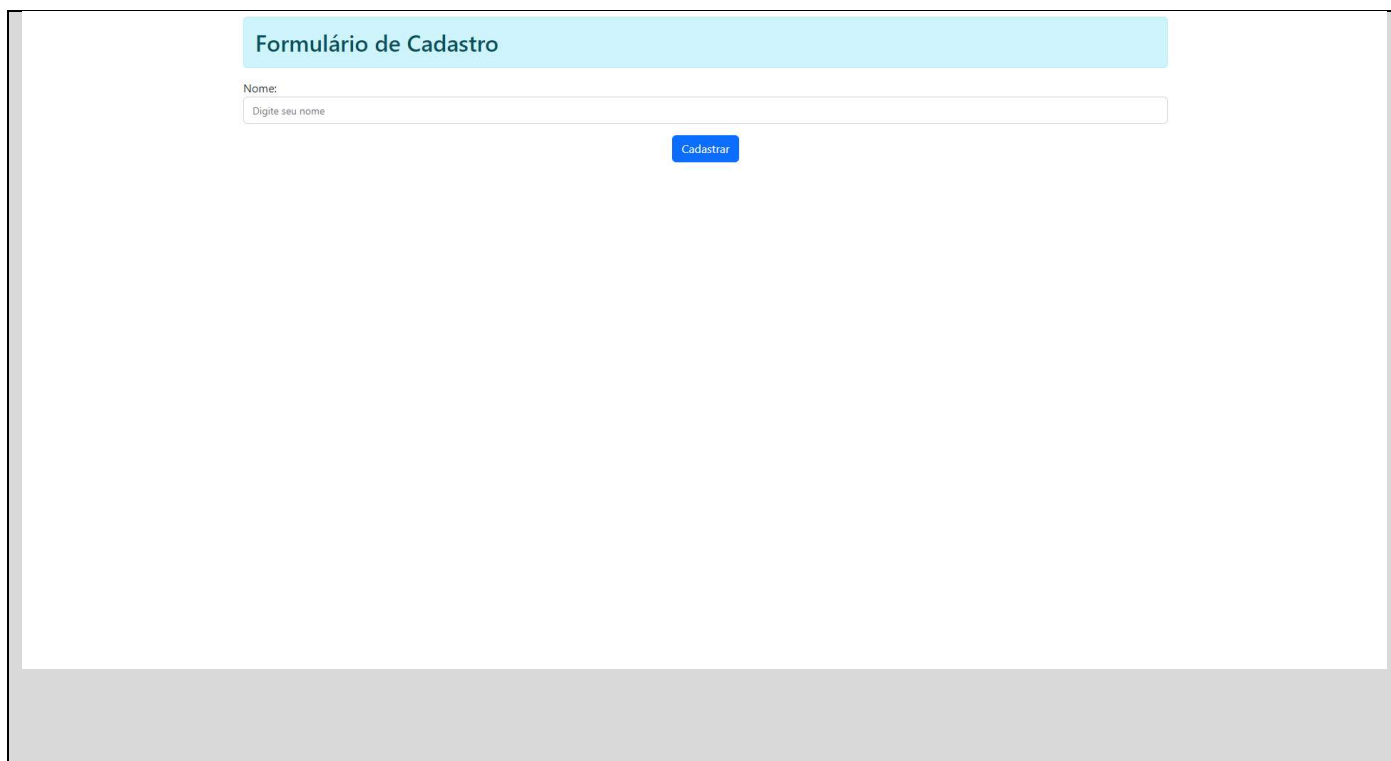
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css" crossorigin="anonymous">

  <title>Formulário de Cadastro</title>
</head>

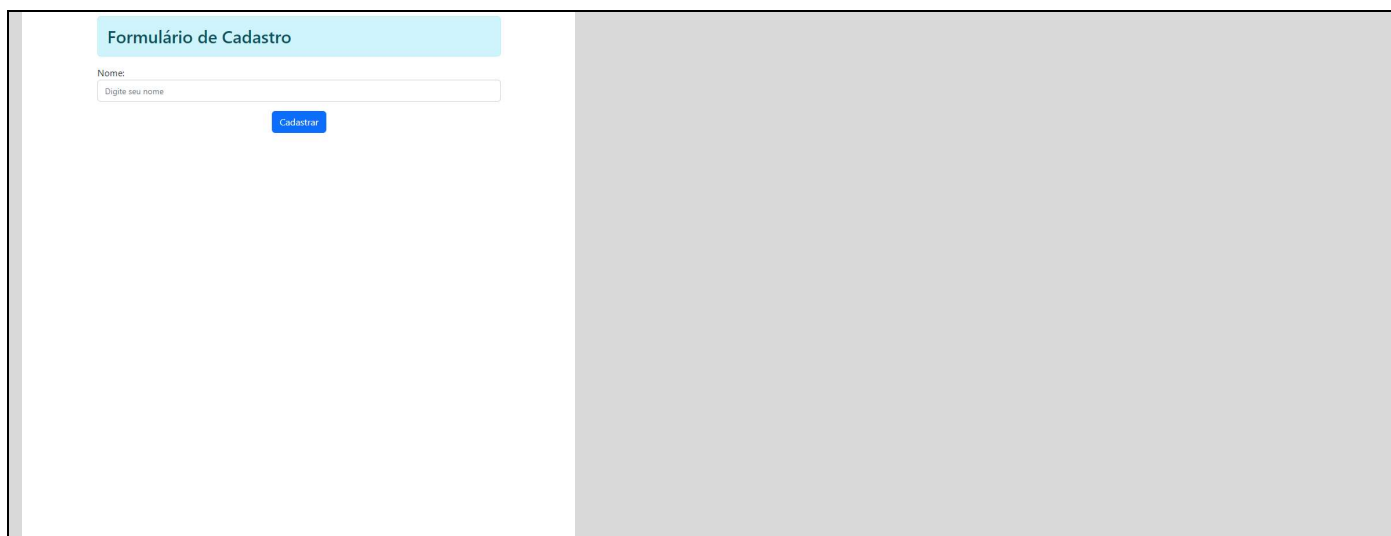
<body>
  <div class="container">
    <form method="post" action="#" class="was-validated">
      <h2 class="alert alert-info" style="margin-top: 0.5rem">Formulário de
Cadastro</h2>
      <div class="form-group mb-3">
        <label for="nome">Nome:</label>
        <input type="text" name="fNome" id="iNome" class="form-control"
          aria-placeholder="Fulano da Silva" required>
        <small class="form-text text-muted">Digite seu nome</small>
      </div>

      <div class="form-group mb-3 text-center">
        <button type="submit" class="btn btn-primary">
          <i class="fa-solid fa-pen-to-square"></i>
          Cadastrar
        </button>
      </div>
    </form>
  </div>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-0ERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJua0e923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</body>
</html>
```

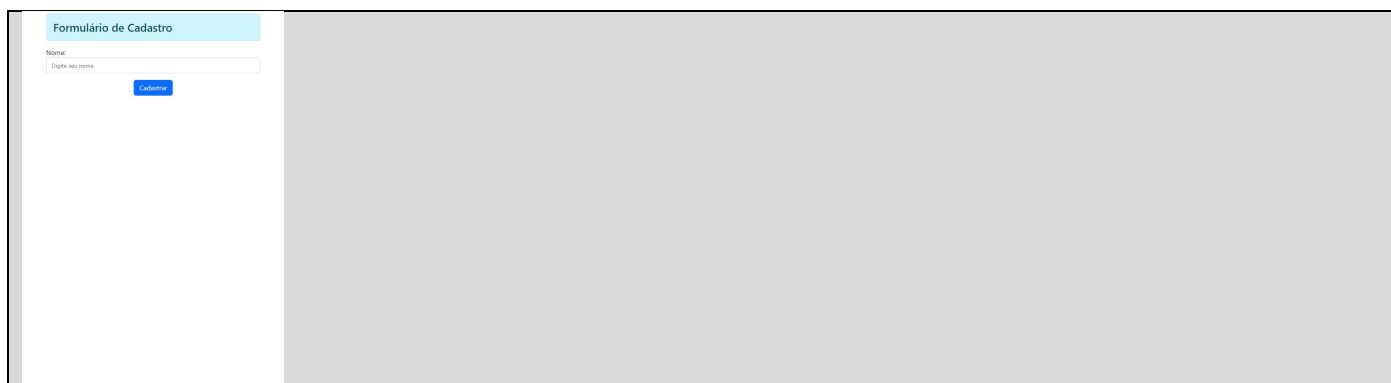
Digite o código e cole abaixo um *print* da tela do navegador utilizando a largura máxima da tela:

A screenshot of a web browser showing a registration form titled "Formulário de Cadastro" in a light blue header. Below the header, there is a label "Nome:" followed by a text input field containing the placeholder text "Digite seu nome". To the right of the input field is a blue button labeled "Cadastrar". The form is centered on a white background, and the browser's address bar and other UI elements are not visible.

Cole abaixo um *print* da tela do navegador utilizando metade da largura da tela:

A screenshot of the same registration form as above, but scaled to half the width of the browser window. The form elements, including the "Formulário de Cadastro" header, the "Nome:" label, the text input field with the placeholder "Digite seu nome", and the "Cadastrar" button, are all proportionally smaller and positioned on the left side of the browser window. The right half of the browser window is a solid gray area.

Cole abaixo um *print* da tela do navegador utilizando a largura mínima da janela do navegador:

A screenshot of the registration form scaled to the minimum width of the browser window. The form is now very narrow, with the "Formulário de Cadastro" header and the "Nome:" label and input field stacked vertically. The "Cadastrar" button is also visible. The rest of the browser window is a solid gray area.

Tabelas

2. O código abaixo monta uma tabela responsiva utilizando classes do Bootstrap.

```
aula12a - tabelas.html

1 <!DOCTYPE html>
2 <html lang="pt-BR">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7
8   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet"
9     integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjzrPF/et3URy9Bv1WTRi" crossorigin="anonymous">
10
11   <title>Tabela com Bootstrap</title>
12
13   <style>
14     table { text-align: center;}
15     tr td:nth-child(2) { text-align: left; }
16     tr td:last-child { text-align: right; }
17   </style>
18 </head>
19 <body>
20   <div class="container">
21     <table class="table table-bordered table-striped table-hover table-responsive">
22       <colgroup>
23         <col class="col-3 col-sm-2 bg-info">
24         <col class="col-3 col-sm-4">
25         <col class="col-3 col-sm-3">
26         <col class="col-3 col-sm-3">
27       </colgroup>
28
29       <caption style="font-size: 2em; font-weight: bold; text-align: center; caption-side: top">
30         Tabela de Clientes
31       </caption>
32
33       <thead class="table-dark">
34         <tr>
35           <th>Id</th>
36           <th>Nome</th>
37           <th>Nascimento</th>
38           <th>Salário (R$)</th>
39         </tr>
40       </thead>
41
42       <tbody>
43         <tr>
44           <th>1</th>
45           <td>Fulano</td>
46           <td>10/10/2000</td>
47           <td>10.000,00</td>
48         </tr>
49         <tr>
50           <th>2</th>
51           <td>Beltrano</td>
52           <td>05/05/1995</td>
53           <td>5.000,00</td>
54         </tr>
55         <tr>
56           <th>3</th>
57           <td>Silviano</td>
58           <td>02/02/2002</td>
59           <td>2.000,00</td>
60         </tr>
61       </tbody>
62     </table>
63   </div>
64
65   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
66     integrity="sha384-0ERcA2EqJJCMA+/3y+gxIOqMEjwtxJY7qPCqsd1tbnJua0e923+mo//f6V8Qbsw3"
67     crossorigin="anonymous"></script>
68 </body>
69 </html>
70
```

```

<!DOCTYPE html>
<html lang="pt-BR">
<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">

  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">

  <title>Tabelas com Bootstrap</title>

  <style>
    table { text-align: center;}
    tr td:nth-child(2) {text-align: left; }
    tr td:last-child { text-align: right; }
  </style>
</head>
<body>
  <div class="container">
    <table class="table table-bordered table-striped table-hover table-responsive">
      <colgroup>
        <col class="col-3 col-sm-2 bg-info">
        <col class="col-3 col-sm-4">
        <col class="col-3 col-sm-3">
        <col class="col-3 col-sm-3">
      </colgroup>

      <caption style="font-size: 2em; font-weight: bold; text-align: center;
caption-side: top">
        Tabela de Clientes
      </caption>

      <thead class="table-dark">
        <tr>
          <th>Id</th>
          <th>Nome</th>
          <th>Nascimento</th>
          <th>Salário (R$)</th>
        </tr>
      </thead>

      <tbody>
        <tr>
          <th>1</th>
          <th>Fulano</th>
          <th>10/10/2000</th>
          <th>10.000,00</th>
        </tr>

        <tr>

```

```

        <th>2</th>
        <th>Beltrano</th>
        <th>05/05/1995</th>
        <th>5.000,00</th>
    </tr>

    <tr>
        <th>3</th>
        <th>Sicrano</th>
        <th>02/02/2002</th>
        <th>2.000,00</th>
    </tr>
</tbody>
</table>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJua0e923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</body>
</html>

```

Digite o código e cole abaixo um *print* da tela do navegador utilizando a largura máxima da tela:

Tabela de Clientes			
Id	Nome	Nascimento	Salário (R\$)
1	Fulano	10/10/2000	10.000,00
2	Beltrano	05/05/1995	5.000,00
3	Sicrano	02/02/2002	2.000,00

Cole abaixo um *print* da tela do navegador utilizando metade da largura da tela:

Tabela de Clientes

Id	Nome	Nascimento	Salário (R\$)
1	Fulano	10/10/2000	10.000,00
2	Beltrano	05/05/1995	5.000,00
3	Sicrano	02/02/2002	2.000,00

Cole abaixo um *print* da tela do navegador utilizando a largura mínima da janela do navegador:

Tabela de Clientes

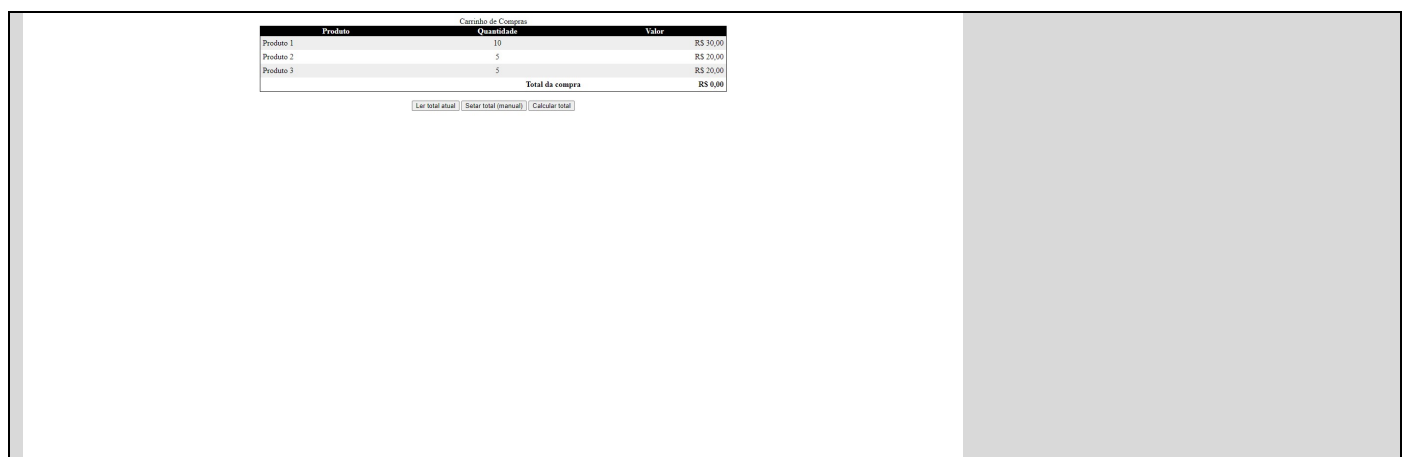
Id	Nome	Nascimento	Salário (R\$)
1	Fulano	10/10/2000	10.000,00
2	Beltrano	05/05/1995	5.000,00
3	Sicrano	02/02/2002	2.000,00

DOM com JavaScript

3. O código abaixo monta uma tabela e manipula seus elementos utilizando JavaScript.

```
aula12b - modifica_total.html
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>Modificando Elemento</title>
9
10  <style>
11    table {
12      width: 50%;
13      margin: 0 auto;
14      border: 1px solid black;
15      border-collapse: collapse;
16    }
17
18    th {
19      color: white;
20      background-color: black;
21    }
22
23    td { padding: 5px; }
24
25    td:nth-child(even) { text-align: center; }
26    td:last-child { text-align: right; }
27    td[colspan="2"] { text-align: right; }
28
29    table tr:nth-child(even) { background-color: #eee; }
30    table tr:nth-child(odd) { background-color: #fff; }
31    table tr:last-child { font-weight: bold; }
32  </style>
33 </head>
34
35 <body>
36   <div>
37     <table>
38       <caption>Carrinho de Compras</caption>
39       <tr>
40         <th>Produto</th>
41         <th>Quantidade</th>
42         <th>Valor</th>
43       </tr>
44       <tr>
45         <td>Produto 1</td>
46         <td name="qtd">10</td>
47         <td>R$ <span name="vlr">30,00</span></td>
48       </tr>
49       <tr>
50         <td>Produto 2</td>
51         <td name="qtd">5</td>
52         <td>R$ <span name="vlr">20,00</span></td>
53       </tr>
54       <tr>
55         <td>Produto 3</td>
56         <td name="qtd">5</td>
57         <td>R$ <span name="vlr">20,00</span></td>
58       </tr>
59       <tr>
60         <td colspan="2">Total da compra</td>
61         <td>
62           R$ <span id="total">0,00</span>
63         </td>
64       </tr>
65     </table>
66   </div>
67
68   <div style="text-align: center;">
69     <button onclick="alert('Total: R$' + document.querySelector('#total').innerHTML);">
70       Ler total atual
71     </button>
72
73     <button onclick="setarValorTotal()">
74       Setar total (manual)
75     </button>
76
77     <button onclick="calcularValorTotal()">
78       Calcular total
79     </button>
80   </div>
81
82   <script>
83     function converteValor(dado) {
84       let valor = parseFloat(dado.replace(',', '.'));
85
86       if (!isNaN(parseFloat(valor)) && isFinite(valor)) {
87         return valor.toLocaleString('pt-BR', {
88           minimumFractionDigits: 2,
89           maximumFractionDigits: 2
90         });
91       } else {
92         return '0,00';
93       }
94     }
95
96     function setarValorTotal() {
97       let entrada = prompt('Entre com o valor total:', '0,00');
98       document.querySelector('#total').innerHTML = converteValor(entrada);
99     }
100
101     function calcularValorTotal() {
102       let qtds = document.getElementsByName('qtd');
103
104       // Let qtds = document.querySelectorAll('[name=qtd]');
105       // qtds.forEach(num => { console.log(num.innerHTML); });
106
107       let total = 0;
108       for(let i=0; i<qtds.length; i++) {
109         let qtd = parseFloat(qtds[i].innerHTML);
110
111         total += qtd;
112       }
113
114       total = total.toLocaleString('pt-BR', {minimumFractionDigits: 2, maximumFractionDigits: 2});
115       document.querySelector('#total').innerHTML = total;
116     }
117   </script>
118 </body>
119 </html>
```

Cole abaixo um *print* da tela do navegador com a página acima:



Altere a função `calcularValorTotal()` de forma que ela multiplique a quantidade pelo valor unitário de cada linha da tabela e calcule o valor total somando estes totais parciais de cada linha, atualizando o total na tabela.

4. O código abaixo trabalha com eventos.

```
aula12b - eventos_formulario.html

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
9   <title>Eventos Formulário</title>
10 </head>
11
12 <body>
13   Nome:
14   <input onfocus="console.log('Entrando no campo \'nome\'')"
15         onblur="console.log('Saindo do campo \'nome\'')"
16         onchange="console.log(document.querySelector('#nome').value)"
17         type="text" id="nome">
18
19   <select onchange="console.log(this.value +
20         ' - ' +
21         this.options[this.selectedIndex].text);">
22     <option selected disabled>-- Selecione --</option>
23     <option value="1">Primeira opção</option>
24     <option value="2">Segunda opção</option>
25   </select>
26 </body>
27
28 </html>
```

Abra a ferramenta dev-tools no navegador (*F12*) e clique então na aba *Console*. A seguir clique dentro do campo de input da página HTML e digite alguma coisa. Para sair do campo tecle *TAB*. Na caixa *dropdown* selecione uma opção da lista e depois selecione a outra opção.

Cole abaixo um *print* da tela do navegador com a página acima:

