



Green University

Group Assignment

Course Title : **Web Programming**

Course Code : **CSE-301**

Assignment Name : **Build a Calculator Interface**

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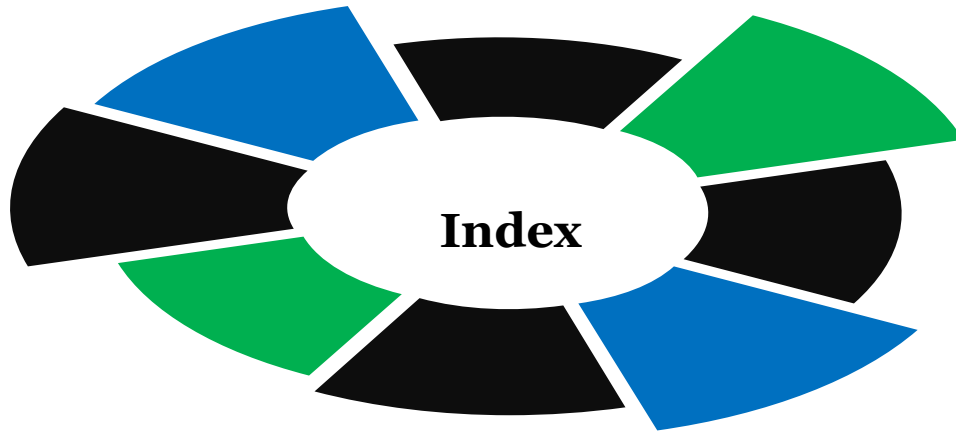
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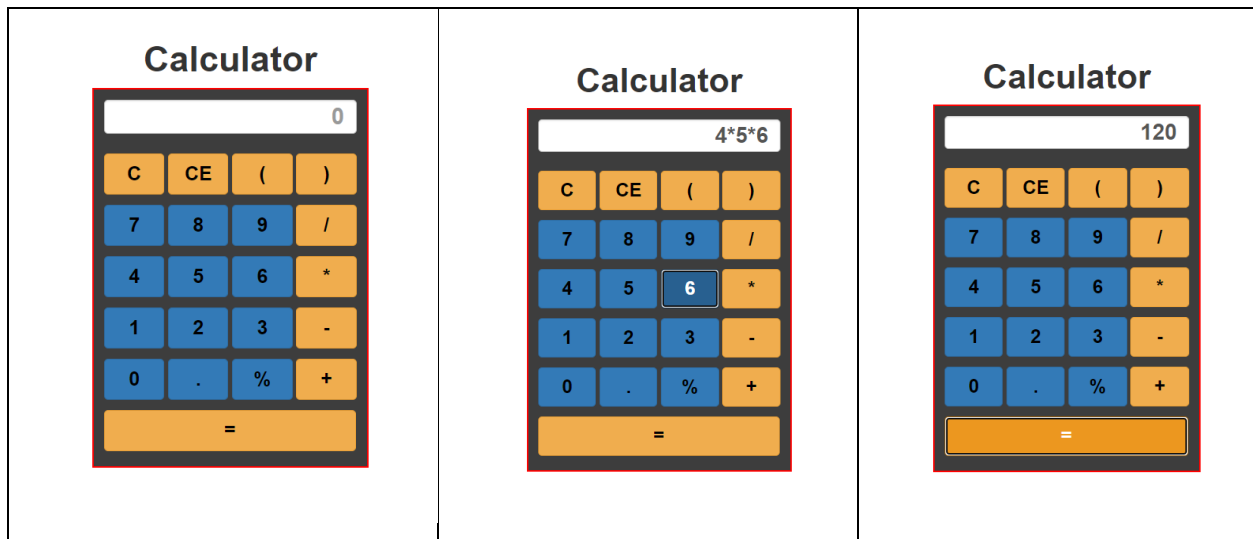
Introduction:

- Create a simple Calculator using **HTML, CSS & JavaScript**.

Components:

- Visual Studio Code.

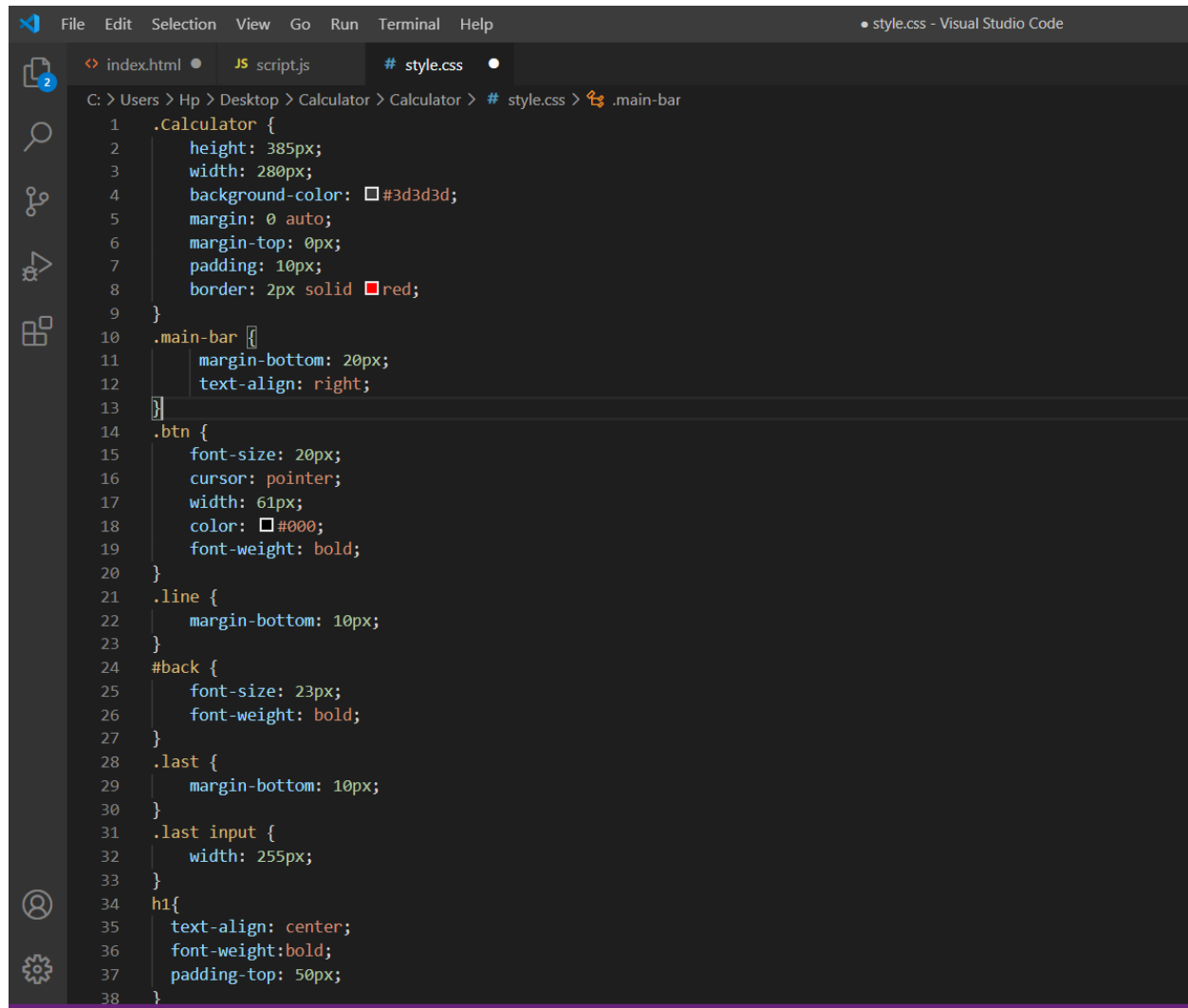
Screenshot of Build Calculator Interface:



Screenshot of HTML:

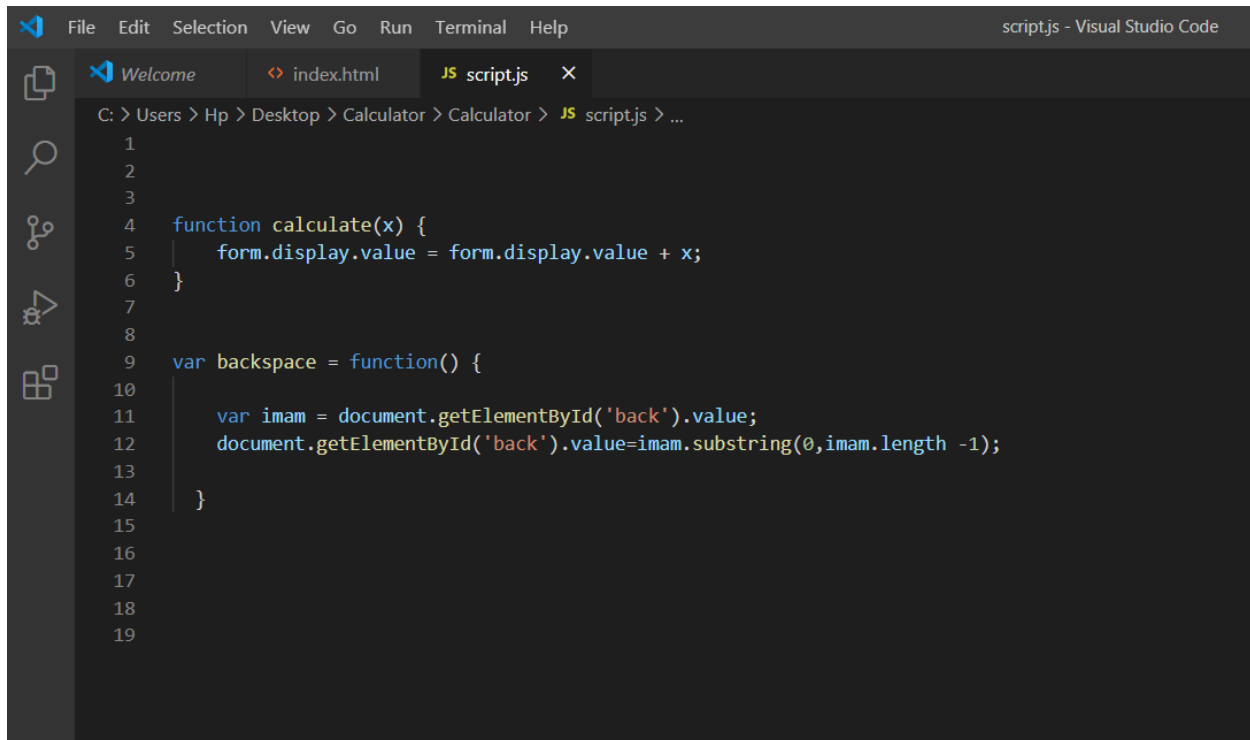
```
index.html • JS script.js # style.css
C: > Users > Hp > Desktop > Calculator > Calculator > index.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>A simple Calculator</title>
8   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
9   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
10  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
11  <link rel="stylesheet" href="style.css">
12  <script src="script.js"></script>
13 </head>
14
15 <body>
16   <h1>Calculator</h1>
17   <div class="Calculator">
18     <form action="" name="form">
19       <input type="text" value="" class="form-control main-bar" name="display" placeholder="0" id="back">
20
21       <div class="button-area">
22         <div class="line">
23           <input type="button" name="btn" value="C" class="btn btn-warning" onclick="display.value = null">
24           <input type="button" name="btn" value="CE" class="btn btn-warning" onclick="backspace();">
25           <input type="button" name="btn" value="(" class="btn btn btn-warning" onclick="calculate(this.value)">
26           <input type="button" name="btn" value=")" class="btn btn-warning" onclick="calculate(this.value)">
27         </div>
28
29         <div class="line">
30           <input type="button" name="btn" value="7" class="btn btn-primary" onclick="calculate(this.value)">
31           <input type="button" name="btn" value="8" class="btn btn-primary" onclick="calculate(this.value)">
32           <input type="button" name="btn" value="9" class="btn btn-primary" onclick="calculate(this.value)">
33           <input type="button" name="btn" value="/" class="btn btn-warning" onclick="calculate(this.value)">
34         </div>
35
36         <div class="line">
37           <input type="button" name="btn" value="4" class="btn btn-primary" onclick="calculate(this.value)">
38           <input type="button" name="btn" value="5" class="btn btn-primary" onclick="calculate(this.value)">
39           <input type="button" name="btn" value="6" class="btn btn-primary" onclick="calculate(this.value)">
40           <input type="button" name="btn" value="*" class="btn btn-warning" onclick="calculate(this.value)">
41         </div>
42
43         <div class="line">
44           <input type="button" name="btn" value="1" class="btn btn-primary" onclick="calculate(this.value)">
45           <input type="button" name="btn" value="2" class="btn btn-primary" onclick="calculate(this.value)">
46           <input type="button" name="btn" value="3" class="btn btn-primary" onclick="calculate(this.value)">
47           <input type="button" name="btn" value="-" class="btn btn-warning" onclick="calculate(this.value)">
48         </div>
49
50         <div class="line">
51           <input type="button" name="btn" value="0" class="btn btn-primary" onclick="calculate(this.value)">
52           <input type="button" name="btn" value="." class="btn btn-primary" onclick="calculate(this.value)">
53           <input type="button" name="btn" value="%" class="btn btn-primary" onclick="calculate(this.value)">
54           <input type="button" name="btn" value="+" class="btn btn-warning" onclick="calculate(this.value)">
55         </div>
56
57         <div class="last">
58           <input type="button" name="btn" value="=" class="btn btn-warning" onclick="display.value = eval(display.value)">
59         </div>
60       </div>
61     </form>
62   </div>
63 </body>
64 </html>
```

Screenshot of CSS:



```
1  .Calculator {
2      height: 385px;
3      width: 280px;
4      background-color: #3d3d3d;
5      margin: 0 auto;
6      margin-top: 0px;
7      padding: 10px;
8      border: 2px solid red;
9  }
10 .main-bar {
11     margin-bottom: 20px;
12     text-align: right;
13 }
14 .btn {
15     font-size: 20px;
16     cursor: pointer;
17     width: 61px;
18     color: #000;
19     font-weight: bold;
20 }
21 .line {
22     margin-bottom: 10px;
23 }
24 #back {
25     font-size: 23px;
26     font-weight: bold;
27 }
28 .last {
29     margin-bottom: 10px;
30 }
31 .last input {
32     width: 255px;
33 }
34 h1{
35     text-align: center;
36     font-weight:bold;
37     padding-top: 50px;
38 }
```

Screenshot of JavaScript:



The screenshot shows the Visual Studio Code editor with the file 'script.js' open. The code defines a 'calculate' function that adds the current display value to a new input value, and a 'backspace' function that removes the last character from the display. The file explorer on the left shows the project structure.

```
1
2
3
4 function calculate(x) {
5     form.display.value = form.display.value + x;
6 }
7
8
9 var backspace = function() {
10
11     var imam = document.getElementById('back').value;
12     document.getElementById('back').value=imam.substring(0,imam.length -1);
13
14 }
15
16
17
18
19
```

div.button-area > div.line > input.btn.btn-warning

```
onclick="display.value = null">
" onclick="backspace();">
onclick="calculate(this.value)">
onclick="calculate(this.value)">
```

```
onclick="calculate(this.value)">
onclick="calculate(this.value)">
onclick="calculate(this.value)">
onclick="calculate(this.value)">
```

```
onclick="calculate(this.value)">
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```
onclick="calculate(this.value)">
onclick="calculate(this.value)">
onclick="calculate(this.value)">
onclick="calculate(this.value)">
```

```
onclick="display.value = eval(display.value)">
```

Challenges We Faced:

There are some problem we faced:

1. Firstly we create all calculator button and text box using form Tag (**<form><input type="button" value="Button"></form>**) but can't add **CSS** for beautiful design. For this reason we use 'Bootstrap'.
2. Secondly after creating calculator interface we can't input data. In this time all team member's discuss about this problem and find a solution. For inputting and calculating data we use simple **JavaScript** code and then calculator all function fully work.
3. Finally for single data remove we can use '**Backspace**' button in this calculator. Try again and again but we are failed. Use many JavaScript code but not working. For helping 'Google' we solve this problem.

Contribution of Each Team Member:

In this group assignment same contribution of all team member. We divide this assignment in three part and distribute the all member. **Imam Hasan** deal **HTML & CSS** part, **Sabikun Nahar** deal **JavaScript** part and Bithy Roy correction all part & create in this document file.

Conclusion:

Finally we create a simple calculator & so much happy. We learn little bit of **HTML, CSS & JavaScript**. In future we use this knowledge for developing more web application.