



Calculator and Text Editor

Task -2



Calculator and Text Editor

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Task -2

Create various Front End Programs

- Draw and design a uniform front end code for calculator
- Draw and design a interactive front end code for text-editor

Evaluation Metric:

- 100% Completion of the above tasks

Learning Outcome

- Get to know about concepts of project bucketing
- Knowing about various frontend development framework like angular, vue,react
- Know about various react topics like components, props, state, life cycle etc.

Step-Wise Description

Step 1: Start with creating a basic HTML page.

Step 2: Add the HTML elements and attributes necessary for creating the form elements.

Step 3: Add the text boxes and buttons for the calculator.

Step 4: Create a function for the calculator that will take the input from the text boxes and perform the desired calculations.

Step 5: Add a JavaScript code to the HTML page that will execute the calculator function when the buttons are clicked

.Step 6: Test the calculator to ensure it is working as expected.

Calculator code :

```
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <script src=
6          integrity=
7          crossorigin="anonymous"
8          referrerpolicy="no-referrer"></script>
9      <script src=
10         integrity=
11         crossorigin="anonymous"
12         referrerpolicy="no-referrer"></script>
13     <!-- for styling -->
14     <style>
15         table {
16             border: 1px solid black;
17             margin-left: auto;
18             margin-right: auto;
19         }
20
21         input[type="button"] {
22             width: 100%;
23             padding: 20px 40px;
24             background-color: green;
25             color: white;
26             font-size: 24px;
27             font-weight: bold;
28             border: none;
29             border-radius: 5px;
30         }
31
32         input[type="text"] {
```

```
32         input[type="text"] {
33             padding: 20px 30px;
34             font-size: 24px;
35             font-weight: bold;
36             border: none;
37             border-radius: 5px;
38             border: 2px solid black;
39         }
40     </style>
41 </head>
42 <!-- create table -->
43
44 <body>
45     <table id="calcu">
46         <tr>
47             <td colspan="3"><input type="text" id="result"></td>
48             <!-- clr() function will call clr to clear all value -->
49             <td><input type="button" value="c" onclick="clr()" /> </td>
50         </tr>
51         <tr>
52             <!-- create button and assign value to each button -->
53             <!-- dis("1") will call function dis to display value -->
54             <td><input type="button" value="1" onclick="dis('1')"
55                 onkeydown="myFunction(event)"> </td>
56             <td><input type="button" value="2" onclick="dis('2')"
57                 onkeydown="myFunction(event)"> </td>
58             <td><input type="button" value="3" onclick="dis('3')"
59                 onkeydown="myFunction(event)"> </td>
60             <td><input type="button" value="/" onclick="dis('/')"
61                 onkeydown="myFunction(event)"> </td>
62         </tr>
63         <tr>
64             <td><input type="button" value="4" onclick="dis('4')"
```

```
63             <tr>
64                 <td><input type="button" value="4" onclick="dis('4')"
65                               onkeydown="myFunction(event)"> </td>
66                 <td><input type="button" value="5" onclick="dis('5')"
67                               onkeydown="myFunction(event)"> </td>
68                 <td><input type="button" value="6" onclick="dis('6')"
69                               onkeydown="myFunction(event)"> </td>
70                 <td><input type="button" value="*" onclick="dis('*')"
71                               onkeydown="myFunction(event)"> </td>
72             </tr>
73             <tr>
74                 <td><input type="button" value="7" onclick="dis('7')"
75                               onkeydown="myFunction(event)"> </td>
76                 <td><input type="button" value="8" onclick="dis('8')"
77                               onkeydown="myFunction(event)"> </td>
78                 <td><input type="button" value="9" onclick="dis('9')"
79                               onkeydown="myFunction(event)"> </td>
80                 <td><input type="button" value="-" onclick="dis('-')"
81                               onkeydown="myFunction(event)"> </td>
82             </tr>
83             <tr>
84                 <td><input type="button" value="0" onclick="dis('0')"
85                               onkeydown="myFunction(event)"> </td>
86                 <td><input type="button" value"." onclick="dis('.')"
87                               onkeydown="myFunction(event)"> </td>
88                 <!-- solve function call function solve to evaluate value -->
89                 <td><input type="button" value="/" onclick="solve()"> </td>
90
91                 <td><input type="button" value)+" onclick="dis('+')"
92                               onkeydown="myFunction(event)"> </td>
93             </tr>
94         </table>
```

```
92                               onkeydown="myFunction(event)"> </td>
93             </tr>
94         </table>
95
96     <script>
97         // Function that display value
98         function dis(val) {
99             document.getElementById("result").value += val
100        }
101
102        function myFunction(event) {
103            if (event.key == '0' || event.key == '1'
104                || event.key == '2' || event.key == '3'
105                || event.key == '4' || event.key == '5'
106                || event.key == '6' || event.key == '7'
107                || event.key == '8' || event.key == '9'
108                || event.key == '+' || event.key == '-'
109                || event.key == '*' || event.key == '/')
110                document.getElementById("result").value += event.key;
111        }
112
113        var cal = document.getElementById("calcu");
114        cal.onkeyup = function (event) {
115            if (event.keyCode === 13) {
116                console.log("Enter");
117                let x = document.getElementById("result").value
118                console.log(x);
119                solve();
120            }
121        }
122
123        // Function that evaluates the digit and return result
124        function solve() {
```

```
124         function solve() {
125             let x = document.getElementById("result").value
126             let y = math.evaluate(x)
127             document.getElementById("result").value = y
128         }
129
130         // Function that clear the display
131         function clr() {
132             document.getElementById("result").value = ""
133         }
134     </script>
135 </body>
136
137 </html>
```

Output:

25		c	
1	2	3	/
4	5	6	*
7	8	9	-
0	.	=	+

Text Editor:

```
1 <!DOCTYPE html>
2
3 <html lang="en" dir="ltr">
4
5
6
7 <head>
8
9   <meta charset="utf-8">
10
11  <title>Text Editor</title>
12
13  <!--Bootstrap Cdn -->
14
15  <link rel="stylesheet"
16
17    href=
18
19    integrity=
20
21    crossorigin="anonymous">
22
23  <!-- fontawesome cdn For Icons -->
24
25  <link rel="stylesheet"
26
27    href=
28
29    integrity=
30
31    crossorigin="anonymous" />
```

```
32
33     <link rel="stylesheet"
34
35         href=
36
37
38
39     integrity=
40
41     crossorigin="anonymous" />
42
43
44
45     <!--Internal CSS start-->
46
47     <style>
48
49         h1 {
50
51             padding-top: 40px;
52
53             padding-bottom: 40px;
54
55             text-align: center;
56
57             color: #957dad;
58
59             font-family: 'Montserrat', sans-serif;
60
61         }
62
63
64
```

```
64
65     section {
66
67         padding: 5%;
68
69         padding-top: 0;
70
71         height: 100vh;
72
73     }
74
75
76
77     .side {
78
79         margin-left: 0;
80
81     }
82
83
84
85     button {
86
87         margin: 10px;
88
89         border-color: #957dad !important;
90
91         color: #388888 !important;
92
93         margin-bottom: 25px;
94
95     }
96
```

```
94
95      }
96
97
98
99      button:hover {
100
101          background-color: #fec8d8 !important;
102
103      }
104
105
106
107      textarea {
108
109          padding: 3%;
110
111          border-color: #957dad;
112
113          border-width: thick;
114
115      }
116
117
118
119      .flex-box {
120
121          display: flex;
122
123          justify-content: center;
124
125      }
126
```

```
124
125      }
126
127      </style>
128
129      <!--Internal CSS End-->
130
131  </head>
132  <!--Body start-->
133
134
135
136  <body>
137
138      <section class="">
139
140          <h1 class="shadow-sm">TEXT EDITOR</h1>
141
142          <div class="flex-box">
143
144              <div class="row">
145
146                  <div class="col">
147
148                      <!-- Adding different buttons for
149
150                          different functionality-->
151
152                      <!--onclick attribute is added to give
153
154                          button a work to do when it is clicked-->
155
156                      <button type="button">
```

```
154          button a work to do when it is clicked-->
155
156      <button type="button"
157
158          onclick="f1()"
159
160          class=" shadow-sm btn btn-outline-secondary"
161
162          data-toggle="tooltip"
163
164          data-placement="top"
165
166          title="Bold Text">
167
168      Bold</button>
169
170      <button type="button"
171
172          onclick="f2()"
173
174          class="shadow-sm btn btn-outline-success"
175
176          data-toggle="tooltip"
177
178          data-placement="top"
179
180          title="Italic Text">
181
182      Italic</button>
183
184      <button type="button"
185
186          onclick="f3()"
```

```
184             <button type="button"
185
186                 onclick="f3()"
187
188                 class=" shadow-sm btn btn-outline-primary"
189
190                 data-toggle="tooltip"
191
192                 data-placement="top"
193
194                 title="Left Align">
195
196             <i class="fas fa-align-left"></i></button>
197
198             <button type="button"
199
200                 onclick="f4()"
201
202                 class="btn shadow-sm btn-outline-secondary"
203
204                 data-toggle="tooltip"
205
206                 data-placement="top"
207
208                 title="Center Align">
209
210             <i class="fas fa-align-center"></i></button>
211
212             <button type="button"
213
214                 onclick="f5()"
215
216                 class="btn shadow-sm btn-outline-primary"
```

```
215
216         class="btn shadow-sm btn-outline-primary"
217
218         data-toggle="tooltip"
219
220         data-placement="top"
221
222         title="Right Align">
223
224     <i class="fas fa-align-right"></i></button>
225
226     <button type="button"
227
228         onclick="f6()"
229
230         class="btn shadow-sm btn-outline-secondary"
231
232         data-toggle="tooltip"
233
234         data-placement="top"
235
236         title="Uppercase Text">
237
238     Uppercase</button>
239
240     <button type="button"
241
242         onclick="f7()"
243
244         class="btn shadow-sm btn-outline-primary"
245
246         data-toggle="tooltip"
```

```
244         class="btn shadow-sm btn-outline-primary"
245
246             data-toggle="tooltip"
247
248             data-placement="top"
249
250             title="Lowercase Text">
251
252     Lower Case</button>
253
254     <button type="button"
255
256         onclick="f8()"
257
258         class="btn shadow-sm btn-outline-primary"
259
260         data-toggle="tooltip"
261
262         data-placement="top"
263
264         title="Capitalize Text">
265
266     Capitalize</button>
267
268     <button type="button"
269
270         onclick="f9()"
271
272         class="btn shadow-sm btn-outline-primary side"
273
274         data-toggle="tooltip"
275
276         data-placement="top"
```

```
274                     data-toggle="tooltip"
275
276                     data-placement="top"
277
278                     title="Tooltip on top">
279
280             Clear Text</button>
281
282         </div>
283
284     </div>
285
286 </div>
287
288 <br>
289
290 <div class="row">
291
292     <div class="col-md-3 col-sm-3">
293
294     </div>
295
296     <div class="col-md-6 col-sm-9">
297
298         <div class="flex-box">
299
300             <textarea id="textareal1"
301
302                 class="input shadow"
303
304                 name="name"
305
306                 rows="15"
```

```
306          rows= 15
307
308          cols="100"
309
310          placeholder="Your text here "
311
312      </textare>
313
314  </div>
315
316  </div>
317
318  <div class="col-md-3">
319
320  </div>
321
322  </div>
323
324 </section>
325
326 <br>
327
328 <br>
329
330 <h6 style="text-align:center;">Priyansh Jha 2021.</h6>
331
332
333
334 <!--External JavaScript file-->
335
336 <script src="home.js"></script>
337
338 </body>
```

```
310         placeholder="Your text here ">
311
312     </textarea>
313
314     </div>
315
316     </div>
317
318     <div class="col-md-3">
319
320     </div>
321
322     </div>
323
324 </section>
325
326 <br>
327
328 <br>
329
330 <h6 style="text-align:center;">Priyansh Jha 2021.</h6>
331
332
333
334 <!--External JavaScript file-->
335
336 <script src="home.js"></script>
337
338 </body>
339
340
341
342 </html>
```

Output:

TEXT EDITOR

Deepak L

Assessment Parameter



Submission Github



[https://github.com/Sangeetha0707
/full stack.git](https://github.com/Sangeetha0707/full%20stack.git)

Thank you!

