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1  <html>
2      <head>
3          <!-- Enter an appropriate title -->
4          <title>Partner Up!</title>
5          <style>
6              body
7              {
8                  text-align: center;
9                  background-color: orange;
10                 color: #000000;
11                 border: 80px dotted black;
12             }
13
14
15         </style>
16         <script>
17             var studentArray = [];
18             var partnerArray = [];
19             var instructionsVisible = false;
20             var instructions = "<mark>Add the students who you would like to have the
option to call on, and then either call on one or two of them. <br> If you
have to partner them up, you may click the partner up button to assign two
people to eachother, and the odd one who doesn't have a partner will be
shown at the end if applicable. <br> When done, click the reset button to
clear the names</mark>";
21
22
23             /*Tile:Caeser Cipher
24             *Author: Saipranav Venkatakrishnan
25             *Date Created: November 26th, 2019
26             *
27             *Description: Takes a desired output and displays it with a bigger font size
28             *
29             *Parameters: A desired output
30             *
31             *Returns: The output on a div tag with a bigger font
32             *
33             */
34             function display(item)
35             {
36                 var output = "";
37
38                 output += item;
39
40                 idDivOutput.innerHTML="<font size='10'>" + output + "</font>";
41             }
42
43
44             /*Description: Adds students to an array of stuents to choose from
45             *
46             *Parameters: A student in the text box
47             *
48             *Returns: All the students to choose from, including the new stdent
49             *
50             */
51             function addPeople()
52             {
53                 var person = " " + idStudentText.value
54                 if (person == " ")
55                 {
56
57                     display("Please enter an actual person");
58                     console.log(person)
59
60                 }
61                 else if (person == " ")
62                 {

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63
64         display("Please enter an actual person")
65
66
67     }
68     else
69     {
70         studentArray.push(person)
71         display(studentArray);
72         idStudentText.value=""
73         if(person == " pootis")
74         {
75             idDivPootis.innerHTML = ";) EASTER EGG 1/5;) ... TF2 brother?";
76
77         }
78         else if(person == " Pootis")
79         {
80
81             idDivPootis.innerHTML = ";) EASTER EGG 1/5;) ... TF2 brother?";
82
83         }
84         else if(person == " Maaz")
85         {
86
87             idDivMaaz.innerHTML = ";) EASTER EGG 2/5;) ... Thanks for the advice
88             Maaz";
89
90         }
91         else if(person == " maaz")
92         {
93
94             idDivMaaz.innerHTML = ";) EASTER EGG 2/5;) ... Thanks for the advice
95             Maaz";
96
97         }
98         else if(person == " joe")
99         {
100
101             idDivJoe.innerHTML = ";) EASTER EGG 3/5;) ... Joe MAMA?";
102
103         }
104         else if(person == " Joe")
105         {
106
107             idDivJoe.innerHTML = ";) EASTER EGG 3/5;) ... Joe MAMA?";
108
109         }
110         else if(person == " rithvik")
111         {
112
113             idDivRithvik.innerHTML = ";) EASTER EGG 4/5;) ... Brother from another
114             mother";
115
116         }
117         else if(person == " Rithvik")
118         {
119
120             idDivRithvik.innerHTML = ";) EASTER EGG 4/5;) ... Brother from another
121             mother";
122
123         }
124         else if(person == " caden")
125         {
126
127             idDivCaden.innerHTML = ";) EASTER EGG 5/5;) ... the cool one";
128
129         }
130     }
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126     else if(person == " Caden")
127     {
128
129         idDivCaden.innerHTML = "); EASTER EGG 5/5;) ... the cool one";
130
131     }
132     else{
133         idDivPootis.innerHTML = "";
134
135     }
136     }
137     }
138
139     // Code citation:
140     // Author: Mozilla Foundation
141     // Accessed: 10/16/2017
142     // URL:
143     https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Math/random
144     // Purpose: Generate a random integer, n, such that min <= n <= max
145
146     function randomInt(min, max)
147     {
148         return Math.floor(Math.random() * (max - min + 1) ) + min;
149     }
150
151     /*Description: Picks a random student from the studentArray and displays he
152     student in div tags
153     *
154     *Parameters: Needs to have at least one students in the array, and is
155     activated by clickng it
156     *
157     *Returns: A random person in the array displayed in a div tag
158     *
159     */
160     function pick()
161     {
162         arrayLength = studentArray.length
163         var personPicker = studentArray[randomInt(0, arrayLength - 1)];
164         display(personPicker);
165     }
166
167     /*Description: Picks a random student from the first half of studentArray
168     and adds student to partnerArray
169     *
170     *Parameters: Needs to have at least one students in the first half of the
171     studentArray, or two students in the student array, and is activated by
172     clickng the button pick two
173     *
174     *Returns: A random person for the first half of the studentArray is added
175     to partnerArray
176     *
177     */
178     function pick3()
179     {
180         arrayLength = studentArray.length
181         var halfArray = Math.round(arrayLength/2)
182         console.log(halfArray)
183         var arrayPerson = randomInt(0, halfArray - 1)
184         var personPicker = studentArray[arrayPerson];
185         partnerArray.push(personPicker)
186         console.log(personPicker)
187     }

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185
186 /*Description: Picks a random student from the 2nd half of studentArray and
adds student to partnerArray
187 *
188 *Parameters: Needs to have at least one students in the 2nd half of the
studentArray, or two students in the student array, and is activated by
clickng the button pick two
189 *
190 *Returns: A random person for the 2nd half of the studentArray is added to
partnerArray
191 *
192 */
193
194
195 function pick2()
196 {
197     arrayLength = studentArray.length
198     var halfArray = Math.round(arrayLength/2)
199     console.log(halfArray)
200     var arrayPerson = randomInt(halfArray, arrayLength-1)
201     var personPicker = studentArray[arrayPerson];
202     partnerArray.push(personPicker)
203     console.log(personPicker)
204
205 }
206
207 /*Description: Reset eeverything to how it loaded when first open
208 *
209 *Parameters: Button needs to be clicked
210 *
211 *Returns: Clears the current students in the array, the div tags, and the
text box, and sets boolean instructionsVisible to false
212 *
213 */
214
215 function reset()
216 {
217
218     studentArray = [];
219     idDivOutput.innerHTML="";
220     idStudentText.value="";
221     idDivPootis.innerHTML="";
222     idDivJoe.innerHTML="";
223     idDivRithvik.innerHTML="";
224     idDivCaden.innerHTML="";
225     idDivMaaz.innerHTML="";
226     idDivInstructions.innerHTML="";
227     instructionsVisible = false;
228 }
229
230 /*Description: Picks twos tudents from the studentsTyped in
231 *
232 *Parameters: Needs the button to be clicked while two students are in the
list of students to choose from
233 *
234 *Returns: Two random students, who aren't the same person, displayed in a
div tag with a message
235 *
236 */
237
238 function pair()
239 {
240     idDivOutput.innerHTML="";
241     partnerArray = [];
242     console.log(partnerArray[0])
243     console.log(partnerArray[1])
244     pick3();

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245     pick2();
246     display(partnerArray[0] + " and " + partnerArray[1] + " have been chosen!")
247
248 }
249
250 /*Description: Uses a boolean value to turn on and off instructions
251 *
252 *Parameters: Needs the button to be clicked
253 *
254 *Returns: The instructions or no instructions, depending on the boolean
255 value, highlighted in yellow
256 */
257
258 function toggleInstructions(){
259     if (instructionsVisible == true){
260         document.getElementById('idDivInstructions').innerHTML="";
261         instructionsVisible = false
262     }
263     else {
264         document.getElementById('idDivInstructions').innerHTML=instructions;
265         instructionsVisible = true
266     }
267
268
269
270 }
271
272 // Code citation:
273 // Author: Nitin Patel
274 // Accessed: 12/11/19
275 // URL:
276 https://medium.com/@nitinpatel\_20236/how-to-shuffle-correctly-shuffle-an-array-in-javascript-15ea3f84bfb
277 // Purpose: Shuffle an array, no matter the size
278
279 function shuffle() {
280     studentArray.sort(function(a, b){return 0.5 - Math.random()});
281 }
282
283 function partner()
284 {
285     var partnerArray = [];
286     var arrayLength = studentArray.length
287
288     if(arrayLength % 2 == 1 )
289     {
290
291         studentArray.push("no one else")
292
293     }
294
295     for(var i = 0; i < arrayLength; i += 2)
296     {
297         var partner1 = studentArray[i]
298         var partner2 = studentArray[i + 1]
299
300         console.log(partner1)
301         console.log(partner2)
302         partnerArray.push(partner1 + " and " + partner2);
303
304
305     }
306     console.log(partnerArray)
307     display(partnerArray)
308

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```
309         if(studentArray[arrayLength] = "no one else")
310             {
311                 studentArray.pop()
312             }
313
314         shuffle(studentArray)
315     }
316
317
318
319
320
321
322
323
324     </script>
325 </head>
326 <body>
327
328 <h1>!Classroom Name Caller!</h1>
329 <br>
330 <br>
331 
332 <br>
333 <br>
334 <input type="button" value="Add a Student" onClick="addPeople()">
335 <br>
336 <br>
337 <input type="button" value="Choose 1 Student" onClick="pick()">
338 <br>
339 <br>
340 <input type="button" value="Choose 2 Students" onClick="pair()">
341 <br>
342 <br>
343 <input type="button" value="Reset" onClick="reset()">
344 <br>
345 <br>
346 <input type="button" value="Instructions" onClick="toggleInstructions()">
347 <br>
348 <br>
349 <input type="button" value="Partner Up" onClick="partner()">
350 <br>
351 <br>
352 <input type="text" placeholder="Type student name here" id="idStudentText">
353 <div id="idDivOutput"></div>
354 <div id="idDivPootis"></div>
355 <div id="idDivMaaz"></div>
356 <div id="idDivJoe"></div>
357 <div id="idDivRithvik"></div>
358 <div id="idDivCaden"></div>
359 <div id="idDivInstructions"></div>
360
361
362 </body>
363
364
```