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1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <title>Array Example 2</title>
6
7 <!--
8   File:  cssdweb.edu/StudentResources/Website Development I/CodeSamples/ArrayExample_2.html
9   Copyright (c) 2022 by Jesse Heines. All rights reserved. May be freely
10  copied or excerpted for educational purposes with credit to the author.
11  updated by JMH on May 11, 2022 at 8:38 PM
12  updated by JMH on May 31, 2022 at 4:31 PM
13  updated by JMH on June 7, 2022 at 8:36 AM
14  updated by JMH on September 19, 2022 at 1:18 PM
15 -->
16
17 <script>
18   // month names
19   var arrMonth = // names of all the months (0-based)
20     [ "January", "February", "March", "April", "May", "June",
21       "July", "August", "September", "October", "November", "December" ] ;
22
23   // day names
24   var arrWeekday = // names of all the days of the week (0-based)
25     [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ] ;
26
27   var arrClassTopics = [
28     /* 0 */ "No Class Meeting",
29     /* 1 */ "No Class Meeting",
30     /* 2 */ "HTML Markup for Basic Text",
31     /* 3 */ "No Class Meeting",
32     /* 4 */ "HTML Structure & More Basic Markup",
33     /* 5 */ "No Class Meeting",
34     /* 6 */ "No Class Meeting",
35     /* 7 */ "Creating Lists & Using Entities",
36     /* 8 */ "Working with Images",
37     /* 9 */ "CSS Structure & Basic Rules",
38     /* 10 */ "No Class Meeting",
39     /* 11 */ "No Class Meeting",
40     /* 12 */ "Following Good Coding Practices, Review of CSS Structure, & CSS Selectors",
41     /* 13 */ "CSS Units, Borders, & Backgrounds",
42     /* 14 */ "No Class Meeting",
43     /* 15 */ "No Class Meeting",
44     /* 16 */ "No Class Meeting",
45     /* 17 */ "No Class Meeting",
46     /* 18 */ "Working with Tables",
47     /* 19 */ "Using Hyperlinks",
48     /* 20 */ "CSS Selector Techniques & Priority System",
49     /* 21 */ "Advanced Text Formatting Styles",
50     /* 22 */ "Introduction to JavaScript",
51     /* 23 */ "Built-In JavaScript Functions",
52     /* 24 */ "Writing Your Own Functions",
53     /* 25 */ "Individual Work to Bring Projects to Closure",
54   ] ;
55 </script>
56
57 <style>
58   #tblSchedule tr td {
59     text-align : right ;
60   }
61   #tblSchedule tr td:last-child {
62     text-align : left ;
63   }
64 </style>
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65 </head>
66
67 <body>
68 <h2 style="margin-bottom: 0.2em">Array Example 2</h2>
69 <p style="margin-top: 0; margin-bottom: 1.5em">Version 3, updated September 19, 2022</p>
70 <script>
71     // specify which code option you want to execute
72     var nCodeOption = 2 ;
73     document.writeln( "<h3>This is Code Option # " + nCodeOption + "</h3>" ) ;
74 </script>
75 <p></p>
76
77
78 <script>
79     // The following is DEBUGGING CODE. The Boolean expression as written is false, so
80     // the code that it controls is not executed. This technique is used to keep debugging
81     // code in a program (instead of deleting it) but to prevent it from being executed.
82     if ( false ) {
83         // remember that the month is 0-based, thus, July is month #6
84         var dateFirstClass = new Date( 2022, 6, 5 ) ;
85         console.log( dateFirstClass ) ;
86         // appending a Date object to a blank string ("") forces the result to be a
87         // string, from which we can then extract information with the built-in
88         // substr[ing] function
89         // this is possible because the date string has a standard format
90         console.log( (""+dateFirstClass).substr( 4, 3 ) ) ; // 3-character month
91         console.log( (""+dateFirstClass).substr( 8, 2 ) ) ; // 2-character day
92         console.log( dateFirstClass.getDate() ) ;           // day of the month
93         console.log( dateFirstClass.getFullYear() ) ;       // 4-character year
94     }
95 </script>
96
97 <table id="tblSchedule" cellspacing="0" border="0">
98 <script>
99     // remember that the month is 0-based, thus, July is month #6
100    var dateFirstClass = new Date( 2022, 6, 5 ) ;
101    var date = dateFirstClass ;
102
103    // Loop from 1 to the length of the array
104    for ( var k = 0 ; k < arrClassTopics.length ; k++ ) {
105        document.writeln( "<tr>" ) ;
106
107        switch ( nCodeOption ) {
108
109            case 1 : // code option 1, testing all the data and arrays
110                document.writeln( " <td>" + (k+1) + ". " + arrWeekday[date.getDay()] + ", " +
111                    arrMonth[date.getMonth()] + " " + date.getDate() + ", " +
112                    date.getFullYear() + " : " + arrClassTopics[k] + "</td>" ) ;
113                break ;
114
115            case 2 : // code option 2, to allow for CSS control of each element
116                document.writeln( " <td>" + (k+1) + ".&nbsp;</td>" ) ;
117                document.writeln( " <td>" + arrWeekday[date.getDay()] + ",&nbsp;</td>" ) ;
118                document.writeln( " <td>" + arrMonth[date.getMonth()] + "&nbsp;</td>" ) ;
119                document.writeln( " <td>" + date.getDate() + ",&nbsp;</td>" ) ;
120                document.writeln( " <td>" + date.getFullYear() + " : " ) ;
121                if ( arrClassTopics[k] == "No Class Meeting" ) {
122                    document.writeln( "<em style='color: red;'>" ) ;
123                } else {
124                    document.writeln( "<strong>" ) ;
125                }
126                document.writeln( arrClassTopics[k] ) ;
127                if ( arrClassTopics[k] == "No Class Meeting" ) {
128                    document.writeln( "</em>" ) ;
129                } else {

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130         document.writeln( "</strong>" ) ;
131     }
132     document.writeln( "</td>" ) ;
133     break ;
134 }
135
136 document.writeln( "</tr>" ) ;
137
138     // set the date to the date of the next class
139     // reference: https://stackoverflow.com/questions/563406/how-to-add-days-to-date
140     // The modulus (%) function controls whether we add 2 days (from Tuesday to
141     // Thursday) or 5 days (from Thursday to the Tuesday of the next week).
142     if ( k % 2 == 0 ) {
143         date.setDate( date.getDate() + 2 ) ;
144     } else {
145         date.setDate( date.getDate() + 5 ) ;
146     }
147 }
148 </script>
149 </table>
150 </body>
151
152 </html>
```