```
1
     <!DOCTYPE html>
 2
     <html lang="en">
 3
         <head>
 4
             <meta charset="utf-8">
 5
 6
             <title>CNIT133</title>
 7
      <!-- This is webpage that contains links to CNIT 133 Homework 3 - Functions -->
 8
             <meta name="description" content="This is homework 3 main page for CNIT133 using</pre>
             HTML5 and inline CSS">
 9
             <style>
                  .button {
                     width: 120px; height: 60px; background-color:#417bcb; border-radius:
11
                     20px; color: white;
12
                     font-size: 22px; cursor: pointer; display: inline-block; text-align:
                     center;
13
                     padding: 10px; text-decoration: none; overflow: hidden;
14
                 }
15
                  .button:hover,
16
                  .button:focus {
17
                     background-color: #e33c3c; border-color: #b64e57 /* changes colors as
                     user move mouse */
18
19
                  .button-two { /* submenu button*/
20
                     width: 150px; background-color: aliceblue; border-radius: 20px; color:
                      #417bcb;
21
                     font-size: 22px; margin: 34px 3px; cursor: pointer; display:
                     inline-block;
22
                     padding: 10px; text-decoration: none; overflow: hidden;
23
                 }
24
                  .button-two:hover,
25
                  .button-two:focus {
26
                     background-color: #cccccc67; border-color: #1d0e6b /* changes colors as
                     user move mouse */
27
                 }
2.8
                  .colored-section {
29
                     background-color: #e33c3c;
30
                     padding: 2px;
31
                     text-align: center;
32
33
                  .footer-text-container { /*footer*/
34
                     display:flex; align-items:center; /* vertically center items */
3.5
36
                  .footer-text-container img {
37
                     max-width:100%; margin-right:10px /*space between image and text */
38
39
                  .header-container {
40
                     display: flex;
                     align-items: center; /* vertically center items */
41
42
                     justify-content: space-between; /* push items to edges */
43
44
                  .header-text {
45
                     color:#417bcb; font-size: 55px;
                     flex: 0 0 85%; /* set text to 85% available page width */
46
47
                     text-align: center; text-decoration: none;
48
                  }
49
                  .menu-container {
50
                     background-color: #cccccc67; padding: 20px 50px; justify-content: center;
51
                     align-items: center;
52
                 }
53
                  .right-image {
                     max-width: 100%; /* push image to right */
54
55
56
                  .right-text {
57
                     text-align: right; /* align text to the right */
58
59
                  .rounded-image { /*photo*/
                     border-radius:50% /* round photo image */
60
```

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61
                  }
 62
                   .solution-box header {
 63
                       width: 100%; padding: 10px; color:brown; text-align:center;
 64
                  }
 65
                   .solution-frame {
 66
                       width: 80%; display: flex;
 67
                       flex-grow: 1; /* allow to grow and fill available verticle space */
                       justify-content: center; align-items: center;
 68
 69
                       margin: 0 auto; /* center solution-frame within solution box */
 71
                   .solution-frame iframe {
 72
                       width:180%; height: 100%;
 73
                  }
 74
                   .submenu-button {
 75
                       display: flex;
 76
                       background-color: #e33c3c; justify-content: center;
 77
                       height: 100px; width: 100%; align-items: center;
 78
 79
                   .submenu-container {
 80
                       width: 100%; text-align: center; padding-top: 20px; background-color:
                       #e33c3c;
 81
                       font-weight: bolder;
 82
                   }
 83
                   .submenu-header {
 84
                       color:aliceblue; background-color:#e33c3c;
 85
                       height: 30px; font-size: 30px;
 86
                   }
 87
              </style>
 88
          </head>
 89
 90
          <body >
 91
              <header style="background-color:#e33c3c">
 92
                   <div class="header-container">
 93
                       <a class="header-text" href="hw3.html" target=" self">CNIT 133 Homework
                       3 - Functions</a>
 94
                       <figure>
                       <a href="https://www.ccsf.edu/" target=" self">
 95
                       <img src="ccsf ram.gif" alt="ccsf ram logo" width="139" class=</pre>
 96
                       "right-image">
 97
                       </a>
 98
                       </figure>
 99
                  </div>
100
              </header>
101
              <div class="menu-container">
102
103
                  <a href="index.html" target=" self" class="button">Course Basics</a>
                  <a href="hw2.html" target=" self" class="button">JS Basics</a>
104
                  <a href="hw3.html" target="_self" class="button">Functions</a>
105
106
                  <a href="hw4.html" target=" self" class="button">Looping Statements</a>
                  <a href="hw5.html" target="_self" class="button">Arrays</a>
107
108
                  <a href="hw6.html" target=" self" class="button">Objects</a>
                  <a href="hw7.html" target=" self" class="button">DOM and jQuery</a>
109
                  <a href="hw8.html" target="_self" class="button">Ajax Applications</a>
110
111
                  </nav>
112
              </div>
113
              <div class="submenu-container">
114
                   <div class="submenu-header">
115
                       Homework 3 Part:
116
                  </div>
117
                  <div class="submenu-button">
118
                  <nav>
119
                       <a href="hw3-description.html" target=" self" class="button-two">
                       Description</a>
                       <a href="hw3-part1.html" target=" self" class="button-two">Part I</a>
120
                       <a href="hw3-part2.html" target=" self" class="button-two">Part II</a>
121
122
                       <a href="hw3-extra-credit.html" target=" self" class="button-two">Extra
                       Credit</a>
```

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123
                 </nav>
124
                 </div>
125
             </div>
126
             <article>
127
                 <header>
128
                     <br>
129
                     <h2 style="color:brown">Homework 3 Instructions on Topic "Functions"</h2>
130
                 </header>
131
                 <section>
132
                 <h3>What you will do:</h3>
                 Create a web page with the heading CNIT 133 Homework 3 - Functions <br/> <br/> tr>
133
134
                 The contents of this page should be, besides the heading:
135
                     136
                          Hyperlink to Part 1 web page with a short description about what
                         will be presented
137
                         Hyperlink to Part 2 web page with a short description about what
                         will be presented
138
                         <1i>hyperlink to Extra credit (if you will develop it) with a short
                         description about what will be presented
                         <1i>Hyperlink to go back to the Homework 1 web page (the main page)
139
                          140
                     141
                     \langle br \rangle
                 </section>
142
143
                 <section>
144
                 <h3>Part I:</h3>
145
                     Create a webpage that contains: <br/>
146
                     <111>
147
                         The heading Student Grades.
                         <1i>A form with input boxes for Homework Average, Mid-Term Exam
148
                         Score, Final Exam Score, and Participation -<br/>-<br/>br>
149
                             all those grades will be entered as integers.
150
                         <1i>Button for submitting data and a button to clear the form.
151
                         <1i>>Textarea (or div or paragraph element) to present final results
                         and/or error message.
                     152
153
                     Create a script that: <br>
154
                     <111>
155
                         <1i>Checks for valid input, input is between 0-100 and all numbers.
                         <1i>If all input is valid then calculate and display the student's
156
                         final average according to the formula: <br/> <br/>
157
                              final average = (.5 * hwAvg) + (.2 * midExam) + (.2 * finalExam)
                              + (.1 * participation)
158
                         <li>In the output area, you will present the student's final average
                          (rounded to an integer) and final letter grade using the following
                          criteria:<br>
159
                              90-100 A, 80-89 B, 70-79 C, 60-69 D, 0-59 F
                         <1i>If the student's final grade is 'D' or 'F' then display "Student
160
                         must retake the course".
161
                         <1i>If the input of the user is invalid, you will present an error
                         message and, of course, no result will be presented.
                         <1i>Note: The user should be able to reuse that same form for
162
                          another student!
163
                     164
165
                     <br>
166
                 </section>
                 <section>
167
168
                 <h3>Part II:</h3>
169
170
                 <1i>A large company pays its salespeople on a commission basis. The
                 salespeople receive $250 per week, plus 9% of their gross sales for the week.
                 <1i>You have been supplied with a list of the items that can be sold by each
171
                 salesperson.
172
                 <1i>The page will contain a script that includes at the top of your form a
```

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text box for the salesperson's name for the user to enter. 
173
                 <1i>When the user's mouse hovers over this name field, use the jQuery UI
                 tooltip coding to display the message "Please make sure that the
                 salesperson's name is spelled correctly".
174
                 <1i>The user will input the quantity of items sold, for each item.
175
                 <1i>You will use that input to calculate how much the salesperson sold and
                 how much he/she will earn, and then output the results.
176
                 <1i>Use input boxes to input the number sold for each of the items 1-4.
177
                 <1i>You should also check for valid numeric input (make sure the number of
                 items sold is never negative).
                 <li>The results of total sold in dollars and the total money that will be
178
                 received by the sale person should be right-justify.
179
                 <1i>The boxes for seller's name, and Item 1, Item 2, Item 3, Item 4 will be
                 the boxes that the user will type data.
                 <1i>All the boxes below Qty Sold and Total should be readonly as you will
180
                 present the values via your code.
                 <1i>In the box beside total earnings, you need to make sure that you first
181
                 add all the values for each of the Total boxes (for item 1, item 2, item 3,
                 item 4) < /1i >
182
                 <1i>Then you calculate the 9% of that value and, finally, you add 250 to
                 that result to give the total earnings of the seller!
                 <1i>Input type="text" for the seller's name, item 1, 2, 3, and 4, input
                 type="number".
184
                 185
                     <br>
186
                 </section>
187
                 <section>
188
                 <h3>Extra Credit:</h3>
189
                     Computers are playing an increasing role in education! There are many
                     interesting educational games out there! <br/>
190
                     <111>
191
                         <li>Write a program that will help an elementary school student
                         learn multiplication.
192
                         Use Math.random to produce two one-digit integers (NO DECIMALS)
                         from 0 to 9.</1i>
193
                         <1i>With those two numbers, you should present a question such as:
                         How much is X times Y? where X is one of the random numbers and Y is
                         the other random number.
194
                         The student then types the answer into an input box you will
                         provide.
195
                         The program checks the student's answer.
196
                         If it is correct, display the message "Very good!" in a text
                         area or another part of the page, and then shows a question to the
                         user to see whether he/she wants to keep playing. 
197
                         <1i>If the user responds YES (click on a button that says YES), you
                         will then generate another question
198
                         <1i>If the user responds NO (click on a button that says NO), you
                         will present a message such as "Thanks for playing, see you next
                         time" and you will NOT present another question.
199
                         <1i>If the answer to the multiplication question is wrong, display
                         the message "No. Please try again." in a textarea or another part of
                         the page.
200
                         <1i>Let the student try the same question again repeatedly until the
                         student finally gets it right.
201
                     202
203
204
205
                 </section>
             </article>
206
207
             <article class="solution-box">
208
                 <header>
209
                     <h2>Homework 3 Code Solution</h2>
210
                 </header>
211
                 <div class="solution-frame">
212
                 <iframe src="hw3.pdf"></iframe>
213
                 </div>
```

```
214
                <br><br><br>></pr>
215
           </article>
216
217
            <footer style="background-color:#ccccc67">
218
                <br>
219
                <figure>
220
                <div class="footer-text-container">
221
                    <img src="op.jpg" alt="self" width="80" class="rounded-image">
222
                    Teresita Anselm<br>
223
                    City College of San Francisco<br>
224
                    tanselm@mail.ccsf.edu<br>
225
                </div>
226
                </figure>
227
                Copyright of Teresita Anselm © 2023
228
229
            </footer>
230
231
        </body>
232 </html>
```