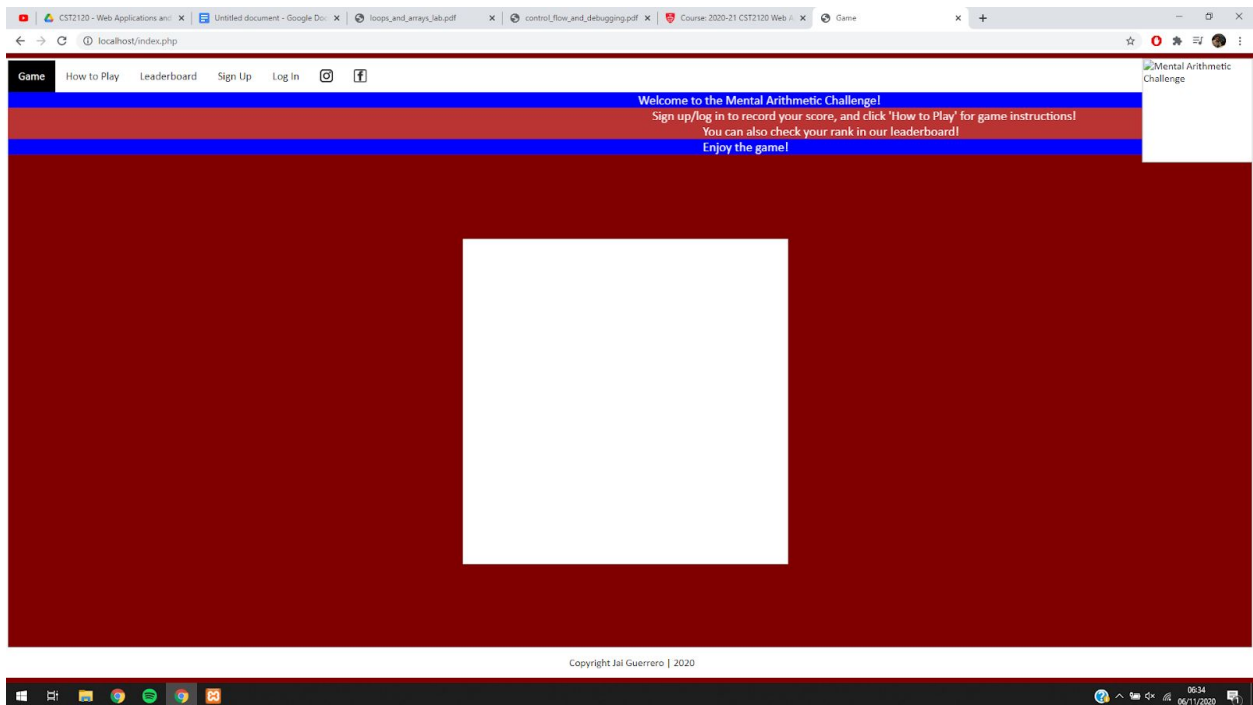
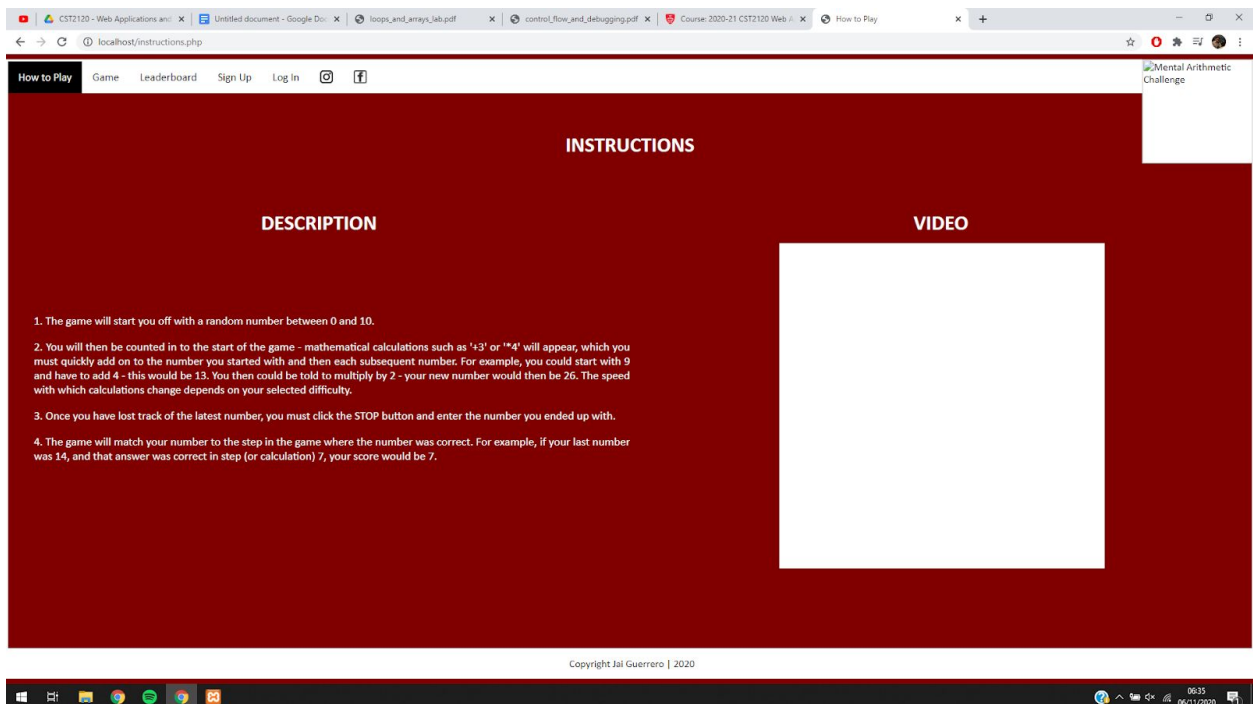


Website with navigation

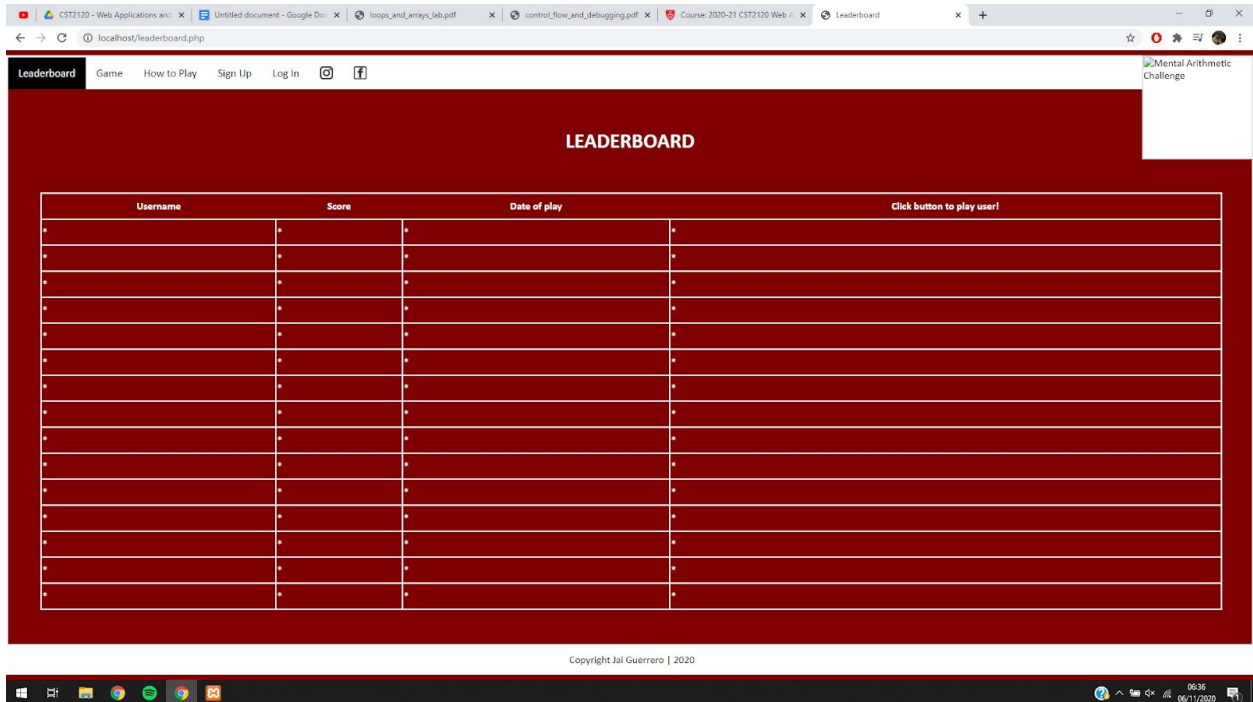
CST2120 - Coursework 1



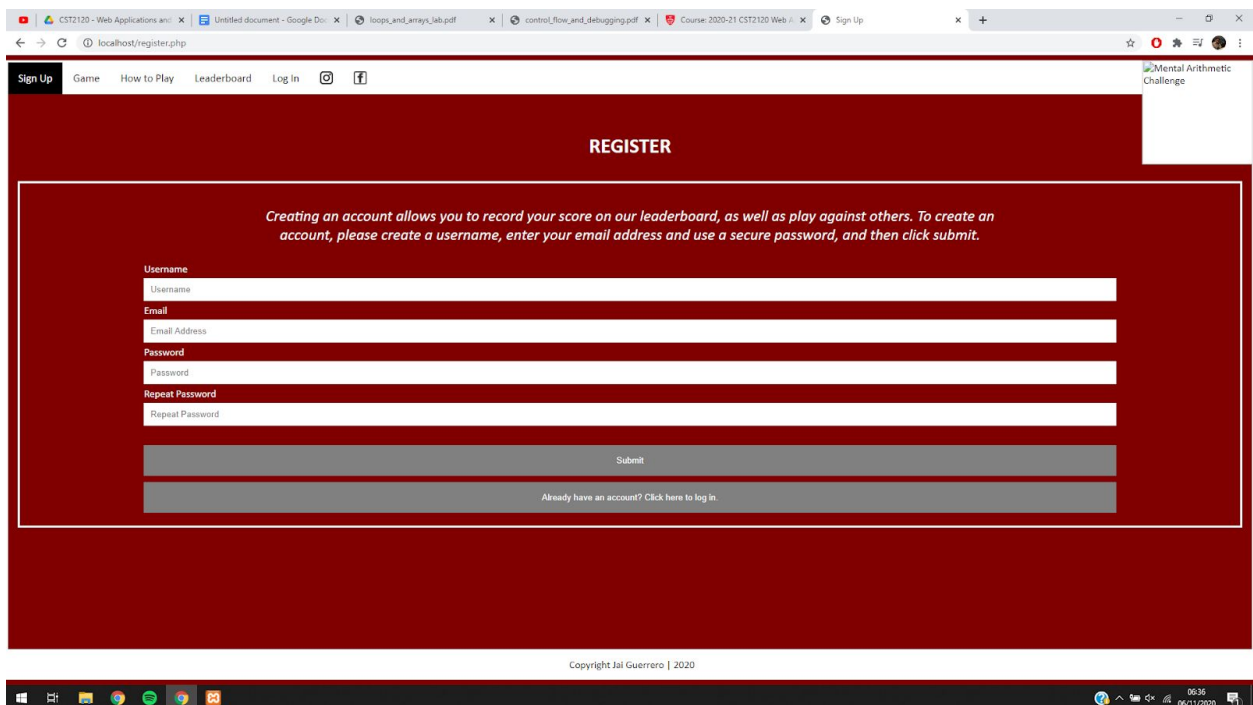
Home page (index.php)



Instructions page (instructions.php)



Leaderboard (leaderboard.php)



Registration page (register.php)

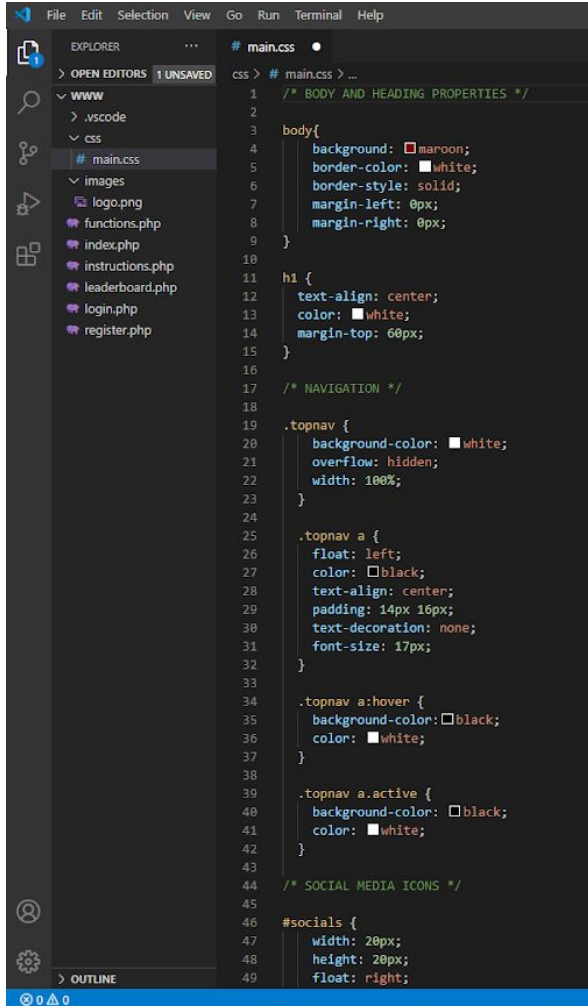
The screenshot shows a web browser window with the address bar displaying 'localhost/login.php'. The page has a dark red header with a navigation bar containing links: 'Log In', 'Game', 'Instructions', 'Leaderboard', 'Sign Up', and social media icons for Instagram and Facebook. A 'Mental Arithmetic Challenge' logo is in the top right. The main content area is a large red rectangle with the text 'LOG IN' at the top. Below it, a white box contains the text: 'Logging into your account allows you to record your score on our leaderboard, as well as play against others.' The login form includes fields for 'Username' and 'Password', a 'Submit' button, and a link: 'Don't have an account? Click here to sign up.' The footer of the page reads 'Copyright Jai Guerrero | 2020'.

Login page (login.php)

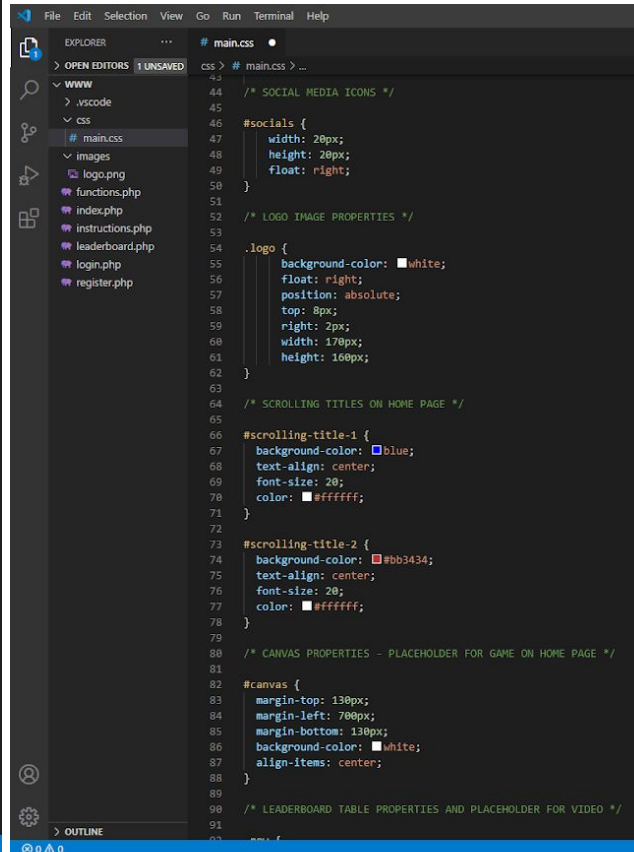
This screenshot shows the navigation bar of the website. It features a dark red background with white text links: 'Log In', 'Game', 'Instructions', 'Leaderboard', and 'Sign Up'. To the right of these links are social media icons for Instagram and Facebook. In the top right corner, there is a logo for 'Mental Arithmetic Challenge'.

Navigation bar

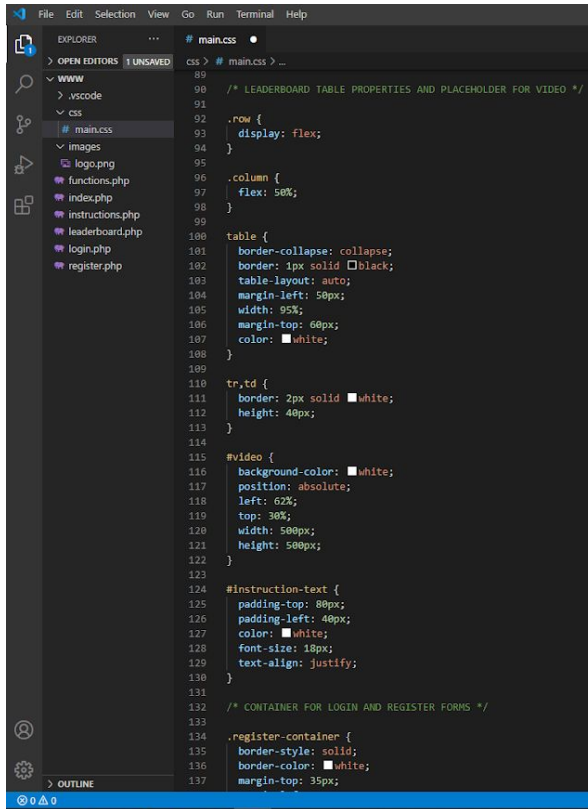
Website code



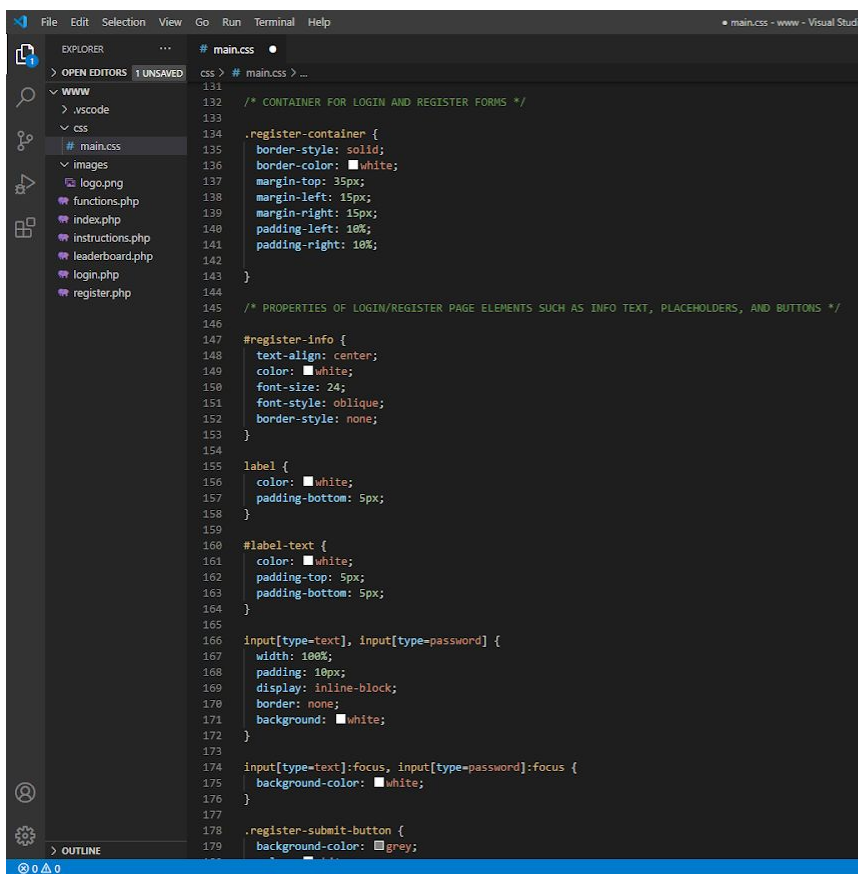
```
1  /* BODY AND HEADING PROPERTIES */
2
3  body{
4      background-color: maroon;
5      border-color: white;
6      border-style: solid;
7      margin-left: 0px;
8      margin-right: 0px;
9  }
10
11  h1 {
12      text-align: center;
13      color: white;
14      margin-top: 60px;
15  }
16
17  /* NAVIGATION */
18
19  .topnav {
20      background-color: white;
21      overflow: hidden;
22      width: 100%;
23  }
24
25  .topnav a {
26      float: left;
27      color: black;
28      text-align: center;
29      padding: 14px 16px;
30      text-decoration: none;
31      font-size: 17px;
32  }
33
34  .topnav a:hover {
35      background-color: black;
36      color: white;
37  }
38
39  .topnav a.active {
40      background-color: black;
41      color: white;
42  }
43
44  /* SOCIAL MEDIA ICONS */
45
46  #socials {
47      width: 20px;
48      height: 20px;
49      float: right;
```



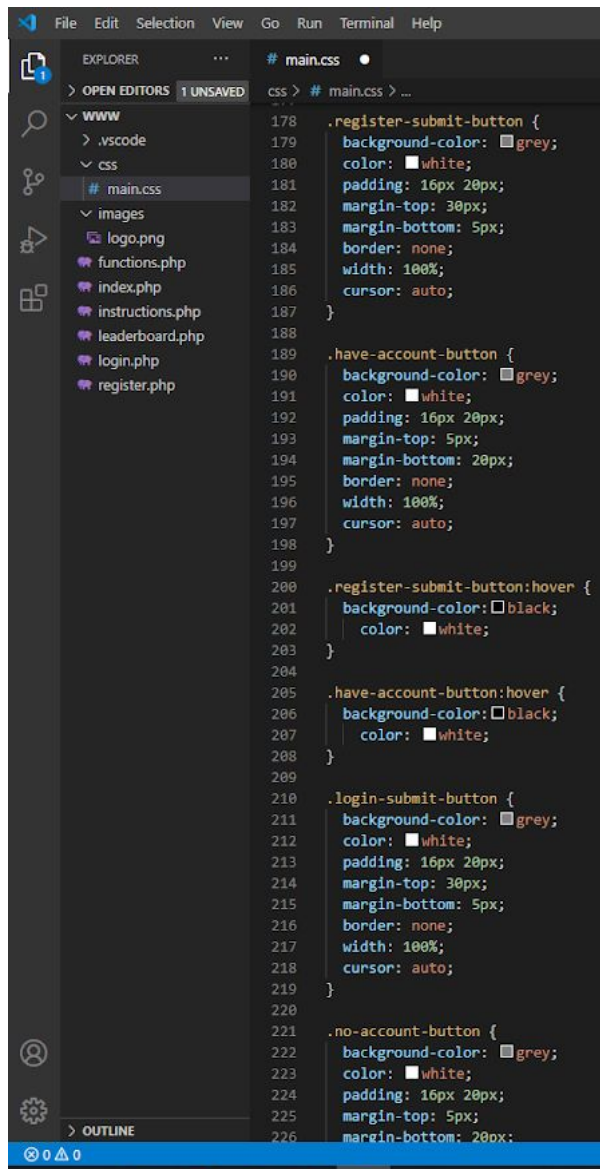
```
43
44  /* SOCIAL MEDIA ICONS */
45
46  #socials {
47      width: 20px;
48      height: 20px;
49      float: right;
50  }
51
52  /* LOGO IMAGE PROPERTIES */
53
54  .logo {
55      background-color: white;
56      float: right;
57      position: absolute;
58      top: 8px;
59      right: 2px;
60      width: 170px;
61      height: 160px;
62  }
63
64  /* SCROLLING TITLES ON HOME PAGE */
65
66  #scrolling-title-1 {
67      background-color: blue;
68      text-align: center;
69      font-size: 20;
70      color: white;
71  }
72
73  #scrolling-title-2 {
74      background-color: #bb3434;
75      text-align: center;
76      font-size: 20;
77      color: white;
78  }
79
80  /* CANVAS PROPERTIES - PLACEHOLDER FOR GAME ON HOME PAGE */
81
82  #canvas {
83      margin-top: 130px;
84      margin-left: 700px;
85      margin-bottom: 130px;
86      background-color: white;
87      align-items: center;
88  }
89
90  /* LEADERBOARD TABLE PROPERTIES AND PLACEHOLDER FOR VIDEO */
91
92  #leaderboard {
```



```
# main.css
89
90 /* LEADERBOARD TABLE PROPERTIES AND PLACEHOLDER FOR VIDEO */
91
92 .row {
93   display: flex;
94 }
95
96 .column {
97   flex: 50%;
98 }
99
100 table {
101   border-collapse: collapse;
102   border: 1px solid black;
103   table-layout: auto;
104   margin-left: 50px;
105   width: 95%;
106   margin-top: 60px;
107   color: white;
108 }
109
110 tr,td {
111   border: 2px solid white;
112   height: 40px;
113 }
114
115 #video {
116   background-color: white;
117   position: absolute;
118   left: 62%;
119   top: 30%;
120   width: 500px;
121   height: 500px;
122 }
123
124 #instruction-text {
125   padding-top: 80px;
126   padding-left: 40px;
127   color: white;
128   font-size: 18px;
129   text-align: justify;
130 }
131
132 /* CONTAINER FOR LOGIN AND REGISTER FORMS */
133
134 .register-container {
135   border-style: solid;
136   border-color: white;
137   margin-top: 35px;
```



```
# main.css
131
132 /* CONTAINER FOR LOGIN AND REGISTER FORMS */
133
134 .register-container {
135   border-style: solid;
136   border-color: white;
137   margin-top: 35px;
138   margin-left: 15px;
139   margin-right: 15px;
140   padding-left: 10%;
141   padding-right: 10%;
142 }
143
144
145 /* PROPERTIES OF LOGIN/REGISTER PAGE ELEMENTS SUCH AS INFO TEXT, PLACEHOLDERS, AND BUTTONS */
146
147 #register-info {
148   text-align: center;
149   color: white;
150   font-size: 24;
151   font-style: oblique;
152   border-style: none;
153 }
154
155 label {
156   color: white;
157   padding-bottom: 5px;
158 }
159
160 #label-text {
161   color: white;
162   padding-top: 5px;
163   padding-bottom: 5px;
164 }
165
166 input[type=text], input[type=password] {
167   width: 100%;
168   padding: 10px;
169   display: inline-block;
170   border: none;
171   background: white;
172 }
173
174 input[type=text]:focus, input[type=password]:focus {
175   background-color: white;
176 }
177
178 .register-submit-button {
179   background-color: grey;
```



```

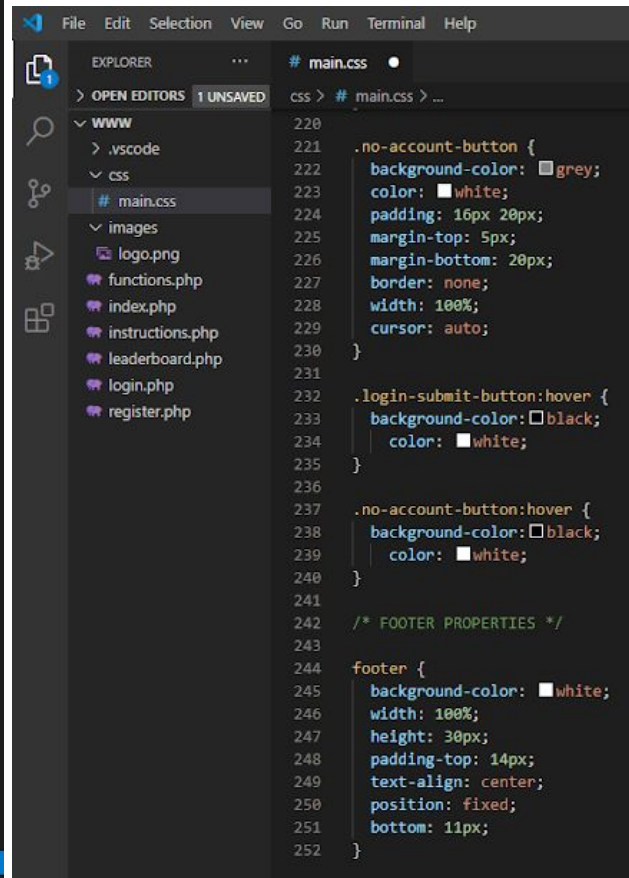
File Edit Selection View Go Run Terminal Help

EXPLORER
> OPEN EDITORS 1 UNSAVED
css > # main.css > ...

WWW
> .vscode
> css
# main.css
images
logo.png
functions.php
index.php
instructions.php
leaderboard.php
login.php
register.php

178 .register-submit-button {
179     background-color: #grey;
180     color: #white;
181     padding: 16px 20px;
182     margin-top: 30px;
183     margin-bottom: 5px;
184     border: none;
185     width: 100%;
186     cursor: auto;
187 }
188
189 .have-account-button {
190     background-color: #grey;
191     color: #white;
192     padding: 16px 20px;
193     margin-top: 5px;
194     margin-bottom: 20px;
195     border: none;
196     width: 100%;
197     cursor: auto;
198 }
199
200 .register-submit-button:hover {
201     background-color: #black;
202     color: #white;
203 }
204
205 .have-account-button:hover {
206     background-color: #black;
207     color: #white;
208 }
209
210 .login-submit-button {
211     background-color: #grey;
212     color: #white;
213     padding: 16px 20px;
214     margin-top: 30px;
215     margin-bottom: 5px;
216     border: none;
217     width: 100%;
218     cursor: auto;
219 }
220
221 .no-account-button {
222     background-color: #grey;
223     color: #white;
224     padding: 16px 20px;
225     margin-top: 5px;
226     margin-bottom: 20px;

```



```

File Edit Selection View Go Run Terminal Help

EXPLORER
> OPEN EDITORS 1 UNSAVED
css > # main.css > ...

WWW
> .vscode
> css
# main.css
images
logo.png
functions.php
index.php
instructions.php
leaderboard.php
login.php
register.php

220
221 .no-account-button {
222     background-color: #grey;
223     color: #white;
224     padding: 16px 20px;
225     margin-top: 5px;
226     margin-bottom: 20px;
227     border: none;
228     width: 100%;
229     cursor: auto;
230 }
231
232 .login-submit-button:hover {
233     background-color: #black;
234     color: #white;
235 }
236
237 .no-account-button:hover {
238     background-color: #black;
239     color: #white;
240 }
241
242 /* FOOTER PROPERTIES */
243
244 footer {
245     background-color: #white;
246     width: 100%;
247     height: 30px;
248     padding-top: 14px;
249     text-align: center;
250     position: fixed;
251     bottom: 11px;
252 }

```

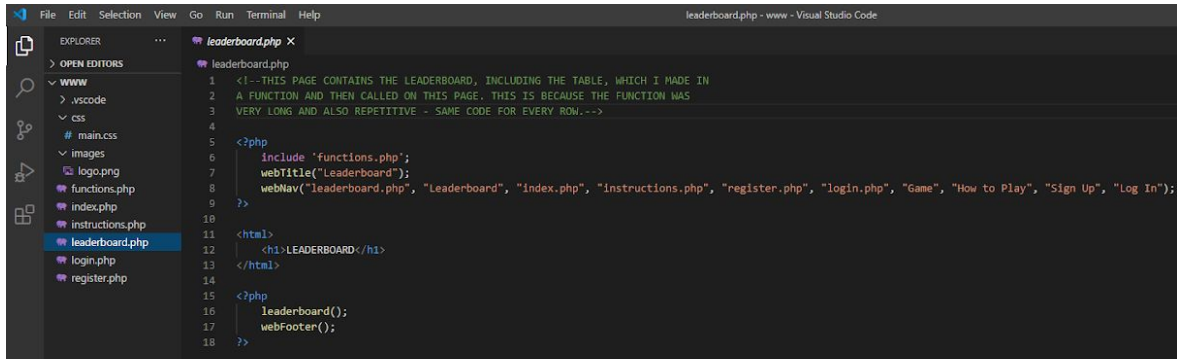
The above is all of my CSS code.

```
index.php - Visual Studio Code
File Edit Selection View Go Run Terminal Help
index.php X
EXPLORER
> OPEN EDITORS
  www
  > vscode
  > cs
  # main.css
  > images
  logo.png
  functions.php
index.php
instructions.php
leaderboard.php
login.php
register.php
index.php
1 <!-- THIS PAGE IS MY HOME PAGE, WHICH WILL CONTAIN THE PLACEHOLDER FOR THE GAME. -->
2
3 <?php
4 include 'functions.php';
5 webTitle('Game');
6 webNav('Index.php', "Game", "Instructions.php", "leaderboard.php", "register.php", "login.php", "How to Play", "leaderboard", "Sign Up", "Log In");
7 ?>
8
9 <html>
10
11     <div id="scrolling-title-1">
12         <marquee behavior="scroll" direction="left" height="" loop="" scrollamount="8" scrolldelay="85" width="100%">
13             <span style="font-size: 20px; color: #FFFFFF">
14                 Welcome to the Mental Arithmetic Challenge! </span></marquee>
15         </div>
16
17     <div id="scrolling-title-2">
18         <marquee behavior="scroll" direction="left" height="" loop="" scrollamount="8" scrolldelay="87" width="100%">
19             <span style="font-size: 20px; color: #FFFFFF">
20                 Sign up/log in to record your score, and click 'How to Play' for game instructions! </span></marquee>
21         </div>
22
23     <div id="scrolling-title-3">
24         <marquee behavior="scroll" direction="left" height="" loop="" scrollamount="8" scrolldelay="95" width="100%">
25             <span style="font-size: 20px; color: #FFFFFF">
26                 You can also check your rank in our leaderboard! </span></marquee>
27         </div>
28
29     <div id="scrolling-title-4">
30         <marquee behavior="scroll" direction="left" height="" loop="" scrollamount="8" scrolldelay="95" width="100%">
31             <span style="font-size: 20px; color: #FFFFFF">
32                 Enjoy the game! </span></marquee>
33         </div>
34
35     <!-- PLACEHOLDER FOR GAME -->
36
37     <canvas id="canvas" width="500" height="500">Game</canvas>
38 </html>
39
40 <?php
41 webFooter();
42 ?>
```

Home page

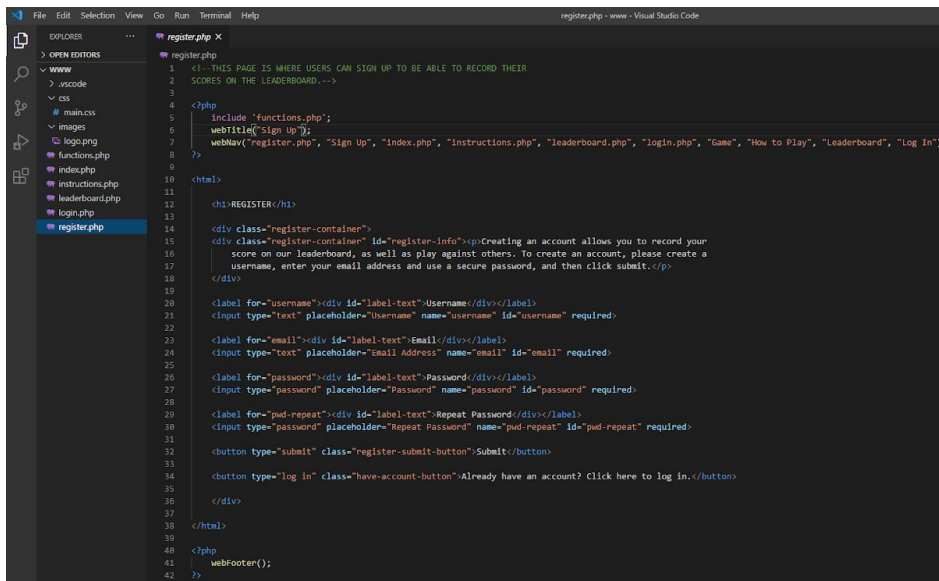
```
instructions.php - Visual Studio Code
File Edit Selection View Go Run Terminal Help
instructions.php X
EXPLORER
> OPEN EDITORS
  www
  > vscode
  > cs
  # main.css
  > images
  logo.png
  functions.php
index.php
instructions.php
leaderboard.php
login.php
register.php
instructions.php
1 <!-- THIS PAGE CONTAINS THE INSTRUCTIONS ON HOW TO PLAY THE GAME. THERE
2 IS ALSO A PLACEHOLDER FOR AN INSTRUCTIONS VIDEO. -->
3
4 <?php
5 include 'functions.php';
6 webTitle('How to Play');
7 webNav('Instructions.php', "How to Play", "Index.php", "leaderboard.php", "register.php", "login.php", "Game", "leaderboard", "Sign Up", "Log In");
8 ?>
9
10 <html>
11
12 <body>
13 <h1>INSTRUCTIONS</h1>
14
15 <div class="row">
16     <div class="column">
17         <h2>DESCRIPTION</h2>
18
19         <!-- TEXT INSTRUCTIONS -->
20
21         <div id="instruction-text">
22             <p>1. The game will start you off with a random number between 0 and 10.</p>
23             <p>2. You will then be counted in to the start of the game - mathematical calculations such as '13' or
24                '4' will appear, which you must quickly add on to the number you started with and then each
25                subsequent number. For example, you could start with 9 and have to add 4 - this would be 13. You then could
26                be told to multiply by 2 - your new number would then be 26. The speed with which calculations change
27                depends on your selected difficulty.</p>
28             <p>3. Once you have lost track of the latest number, you must click the STOP button and enter the
29                number you ended up with.</p>
30             <p>4. The game will match your number to the step in the game where the number was correct. For example,
31                if your last number was 14, and that answer was correct in step (or calculation) 7, your score would
32                be 7.</p>
33         </div>
34     </div>
35
36     <!-- VIDEO INSTRUCTIONS -->
37
38     <div class="column">
39         <h2>VIDEO</h2>
40         <canvas id="video" width="500px" height="500px">Video</canvas>
41     </div>
42 </div>
43
44 <?php
45 webFooter();
46 ?>
47
48 </body>
49 </html>
```

Instructions page



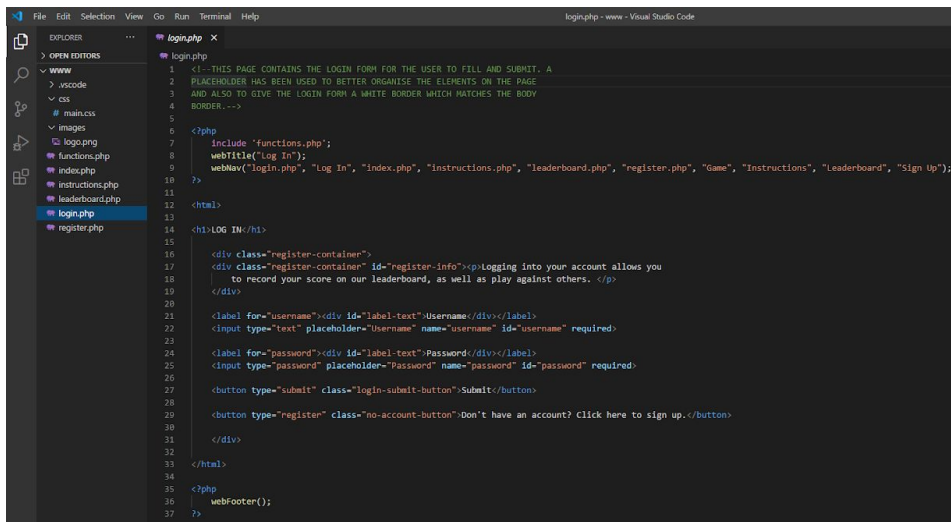
```
1 <!-- THIS PAGE CONTAINS THE LEADERBOARD, INCLUDING THE TABLE, WHICH I MADE IN
2 A FUNCTION AND THEN CALLED ON THIS PAGE. THIS IS BECAUSE THE FUNCTION WAS
3 VERY LONG AND ALSO REPETITIVE - SAME CODE FOR EVERY ROW.-->
4
5 <?php
6     include 'functions.php';
7     webTitle("Leaderboard");
8     webNav("leaderboard.php", "Leaderboard", "index.php", "instructions.php", "register.php", "login.php", "Game", "How to Play", "Sign Up", "Log In");
9 >?
10
11 <html>
12     <h1>LEADERBOARD</h1>
13 </html>
14
15 <?php
16     leaderboard();
17     webFooter();
18 >?>
```

Leaderboard page



```
1 <!-- THIS PAGE IS WHERE USERS CAN SIGN UP TO BE ABLE TO RECORD THEIR
2 SCORES ON THE LEADERBOARD.-->
3
4 <?php
5     include 'functions.php';
6     webTitle("Sign Up");
7     webNav("register.php", "Sign Up", "index.php", "instructions.php", "leaderboard.php", "login.php", "Game", "How to Play", "Leaderboard", "Log In");
8 >?
9
10 <html>
11     <h1>REGISTER</h1>
12
13     <div class="register-container">
14         <div class="register-container" id="register-info"><p>Creating an account allows you to record your
15             score on our leaderboard, as well as play against others. To create an account, please create a
16             username, enter your email address and use a secure password, and then click submit.</p>
17         </div>
18
19         <label for="username"><div id="label-text">Username</div></label>
20         <input type="text" placeholder="Username" name="username" id="username" required>
21
22         <label for="email"><div id="label-text">Email</div></label>
23         <input type="text" placeholder="Email Address" name="email" id="email" required>
24
25         <label for="password"><div id="label-text">Password</div></label>
26         <input type="password" placeholder="Password" name="password" id="password" required>
27
28         <label for="pwd-repeat"><div id="label-text">Repeat Password</div></label>
29         <input type="password" placeholder="Repeat Password" name="pwd-repeat" id="pwd-repeat" required>
30
31         <button type="submit" class="register-submit-button">Submit</button>
32
33         <button type="log in" class="have-account-button">Already have an account? Click here to log in.</button>
34     </div>
35
36 </html>
37
38 <?php
39     webFooter();
40 >?>
```

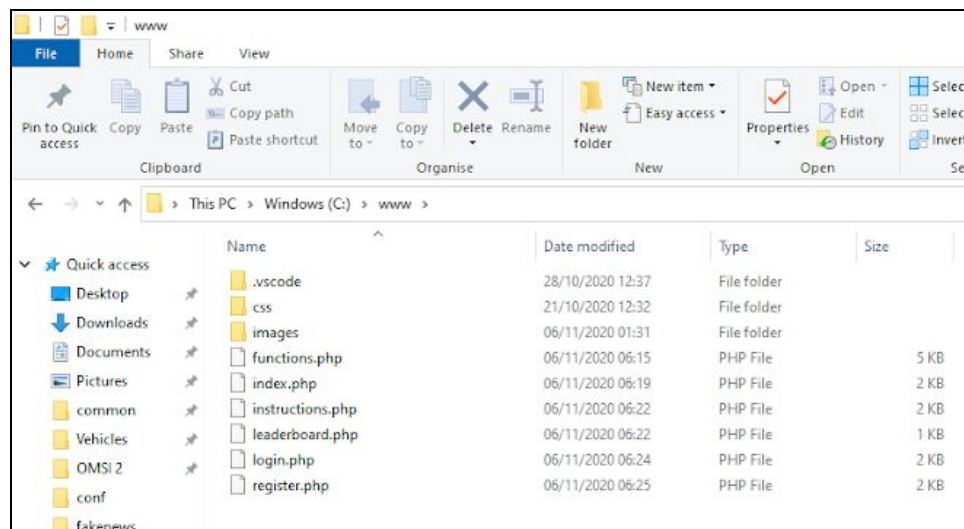
Register page



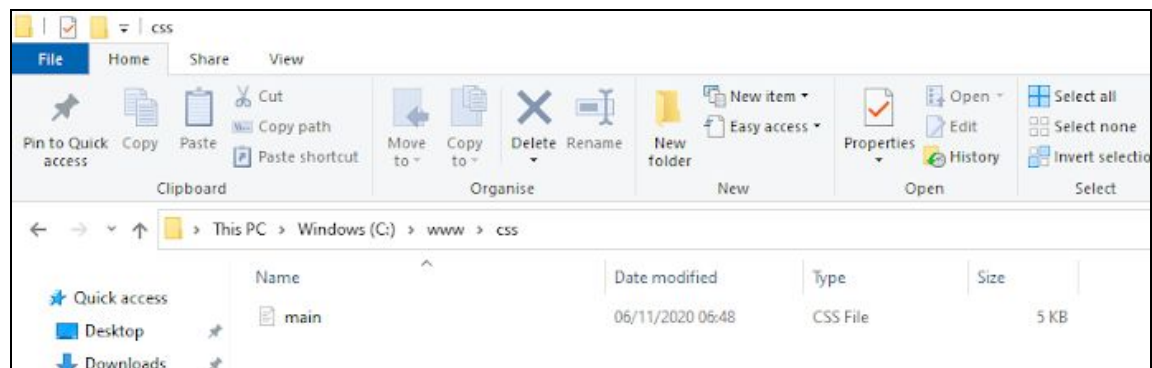
```
1 <!-- THIS PAGE CONTAINS THE LOGIN FORM FOR THE USER TO FILL AND SUBMIT. A
2 PLACEHOLDER HAS BEEN USED TO BETTER ORGANISE THE ELEMENTS ON THE PAGE
3 AND ALSO TO GIVE THE LOGIN FORM A WHITE BORDER WHICH MATCHES THE BODY
4 BORDER.-->
5
6 <?php
7     include 'functions.php';
8     webTitle("Log In");
9     webNav("login.php", "Log In", "index.php", "instructions.php", "leaderboard.php", "register.php", "Game", "Instructions", "Leaderboard", "Sign Up");
10 >?
11
12 <html>
13     <h1>LOG IN</h1>
14
15     <div class="register-container">
16         <div class="register-container" id="register-info"><p>Logging into your account allows you
17             to record your score on our leaderboard, as well as play against others. </p>
18         </div>
19
20         <label for="username"><div id="label-text">Username</div></label>
21         <input type="text" placeholder="Username" name="username" id="username" required>
22
23         <label for="password"><div id="label-text">Password</div></label>
24         <input type="password" placeholder="Password" name="password" id="password" required>
25
26         <button type="submit" class="login-submit-button">Submit</button>
27
28         <button type="register" class="no-account-button">Don't have an account? Click here to sign up.</button>
29     </div>
30
31 </html>
32
33 <?php
34     webFooter();
35 >?>
```

Login page

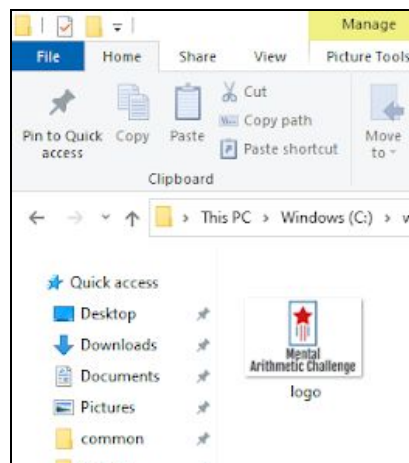
Folder structure



Root



Inside css folder



Inside images folder