

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <!--
5     JavaScript 6th Edition
6     Chapter 7
7     Hands-on Project 7-1
8
9     Author:
10    Date:
11
12    Filename: index.htm
13  -->
14  <meta charset="utf-8" />
15  <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-
scalable=0">
16  <title>Hands-on Project 7-1</title>
17  <link rel="stylesheet" href="styles.css" />
18  <script src="modernizr.custom.05819.js"></script>
19 </head>
20
21 <body>
22   <header>
23     <h1>
24       Hands-on Project 7-1
25     </h1>
26   </header>
27
28   <article>
29     <h2>Square Root Calculator</h2>
30     <form>
31       <fieldset>
32         <label for="mValue">
33           Enter a number
34         </label>
35         <input type="number" id="value" />
36       </fieldset>
37       <fieldset>
38         <button type="button" id="convertButton">Calculate square root</button>
39       </fieldset>
40       <fieldset>
41         <p>Square root</p>
42         <p id="sqRoot"></p>
43       </fieldset>
44     </form>
45   </article>
46
47   <script>
48     var valueElement = document.getElementById('value');
49     var resultElement = document.getElementById('sqRoot');
50     function convert() {
51       var root = Math.sqrt(valueElement.value);
52       resultElement.innerHTML = root.toFixed(2);
53     }
54     function createEventListener() {
55       var submitButton = document.getElementById('convertButton');
56       if(submitButton.addEventListener) {
57         submitButton.addEventListener('click', convert, false);
58       } else if (submitButton.attachEvent) {
59         submitButton.attachEvent('onclick', convert);
60       }
61       document.getElementById('value').value = '';
62       document.getElementById('sqRoot').value = '';
63     }
64     if(window.addEventListener) {
```

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65         window.addEventListener('load', createEventListener, false);
66     } else if (window.attachEvent) {
67         window.attachEvent('onload', createEventListener);
68     }
69
70     </script>
71 </body>
72 </html>
73
```