#### Practice program: Article(semantic tags)

<u>Description</u> <u>Grading view</u>

File List Compile & Run Evaluate Full screen index.html **Ū** 1 <!-- do not make any changes in the template --> <!-- fill your code in the areas indicated --> <!DOCTYPE html> <html lang="en"> <head> <title>Article</title> <style> body {
 font-family: Verdana,sans-serif; 9 10 11 font-size: 0.9em; 12 aside {
width: 30%; 13 14 padding-left: 15px; 16 margin-left: auto; 17 margin-right:auto; 18 font-style: italic; background-color: #cccff; 20 header,footer { 21 22 text-align:center; 23 padding: 10px; 24 color: white; background-color: #669999; 25 27 h2{ 28 text-align:center; 29 31 margin: 5px; padding: 10px; background-color: #ccccff; 32 33 34 } 35 36 article { margin: 5px; 38 padding: 10px; background-color: #e6fff2; 39 } 40 42 </head> 43 <body> <header id="head"> 45 <h1 id="heading1">Online Education</h1> 46 </header> 47 <div id="content"> <h2 id="heading2">Future Education</h2> 49 50 51 52 <aside id="side": 53 54 55 56 hello </aside> </article> <article id="art2"> 57 58 ctcle iu= artz /
 <h3 id="overview">Why Online Education</h3>
 cp id="overview" >actual why online Education </article> 60 61 </article> </div> <footer id="foot"> Last update Apr 4,2019. </hody> </html>

#### Practice program: Table of Contents - TOC

<u>Description</u> <u>Grading view</u>

File List Save Compile & Run Evaluate Full screen Description

```
TO .ShIII (
16 height: 100%;
 17 width: 50%;
 18 position: fixed;
 19 overflow: scroll;
 20 z-index: 1;
 21 top: 0;
 22 }
 23 .left {
 24 left: 0;
   background-color: #000000;
 25
 26 }
 27
   .right {
 28 right: 0;
 29 background-color: #808080;
 30 color:#000000;
 31 width: 70%;
32 }
 33 a{
 34 text-decoration:none;
 35 color:#808080;
 36 }
 37
   </style>
 38
 39
   </head>
 40
   <body>
 41
      <div class="split left">
         <!--fill the code-->
 42
         43
            <a href="#overview" id="link1">HTML5 OVERVIEW</a>
            <a href="#syntax" id="link2">HTML5 SYNTAX</a>
 45
            \verb|\display|  < a href="\#attributes" id="link3">HTML5 ATTRIBUTES</a> 
 46
            <a href="#events" id="link4">HTML5 EVENTS</a>
 47
            <a href="#forms" id="link5">HTML5 WEB FORMS 2.0</a>
 48
            <a href="#advd" id="link6">HTML5 AUDIO & VIDEO</a>
 49
 50
         </div>
 51
 52
      <div class="split right">
 53
         <header:</pre>
            <h2>Table of Contents</h2>
 54
 55
         </header>
         HMTL5 OVERVIEW
 57
 58
            id="overview">Browser Support
 59
                New Features
 60
                Backward Compatibility
 61
 62
             63
            64
            HMTL5 SYNTAX
 65
            66
               \langle li \rangle \langle p \rangle The DOCTYPE \langle /p \rangle \langle /li \rangle
```

```
68
           Character Encoding
69
           The script tag
70
           The link tag
71
           HMTL5 Elements
72
           HMTL5 Attributes
73
           HMTL5 Document
74
         75
         76
77
         HMTL5 ATTRIBUTES
78
         79
           Standard Attributes
80
           Custom Attributes
81
         82
         83
84
         HMTL5 EVENTS
85
86
         HMTL5 WEB FORMS 2.0
         87
88
           The input element in HTML4
89
           The input element in HTML5
90
           The output element
91
           The placeholder attributes
92
           The autofocus attributes
93
           The required attributes
         95
         96
97
         HMTL5 AUDIO & VIDEO
         98
99
           Embedding Video
100
           Video Attribute Specification
101
           Embedding Audio
102
           Audio Attribute Specification
103
           Handling Media Events
104
           Configuring Servers for Media Type
105
         106
         107
       108
109
     </div>
110
  </bodv>
111
```

#### Practice program: Chess Board Designing

<u>Description</u> <u>Grading view</u>

```
File List
    Save
                   Full screen
                         Description
★ CHESS.html 
42
43 caption{
    font-family: Georgia;
44
    text-align: center;
45
    font-size:20px;
46
    border-radius: 6px;
47
    padding:5px;
48
    background-color:#ffffff;
49
    border: 3px solid #606060;
50
51 }
52
  input[type="button"]{
53
54
    width:96px;
55
    height:40px;
56
    float:left;
57
    border-radius: 6px;
58
    padding:5px;
  }
59
60
61
  </style>
62
  </head>
63
64
65
66
   <caption id="table caption">CHESS-MASTER</caption>
   67
68
       69

</dr>

70
71
       72
       73

</dr>

74
75
       76
     77
78
79
       80
       81
       82
       83
       84
       85
       86
87
       88
89
90
     91
       92
       93
       94
       95
```

```
97
98
    99
  100
101
  >
    102
    103
    104
105
    106
    107
    108
    109
110
  111
112
  113
114
    115
    116
    117
118
    119
    120
121
  122
123
  124
    125
    126

127
128
    129
    130
    131
132
  133
134
  135
    136
    137
    138
139
    140
    141
    142
143
  144
145
  146
    147
    148
149
    150
151
    152
    153
    154
  155
156
  157
158
  <tfoot id="table_footer">
159
160
  161
162
   163
   <input type="button" id="setup" value="SetUpBoard">
164
   <input type="button" id="online" value="PlayOnline">
   <input type="button" id="computer" value="PlayComputer">
165
166
   <input type="button" id="Withdraw" value="Withdraw">
167
   168
169
  170
171
  </tfoot>
172
173
 174
 </body>
```

</html>

```
File List
                Compile & Run Evaluate Full screen
     <!DOCTYPE html:
<html>
     chtmi>
cheads
ctitle>Employee Basic Information</title>
cstyle>
  input{
    width:280px;
    t
}
#personal{
   background-color:#F$F$F$;
   font-weight:bold;
   font-style:italic;
        }
#current{
  background-color:#FFF5EE;
  font-weight:bold;
  font-style:italic;
        }
#previous{
   background-color:#F8F8FF;
   font-weight:bold;
   font-style:italic;
}
        }
h1{
  Text-align:left;
  text-decoration: underline;
  color:#4B0082;
        }
#submit{
   color: #FFFFFF;
   background-color: #480082;
     background-color: #480082;
}
</style>
</head>
<hbcd>
(hb2Employee Basic Information</h1>
<form)
           rm>
  <fieldset id="personal">
      <legend id="personallegend">Personal Information</legend>
              </fieldset>
           <fieldset id="current">
        <legend id="currentlegend">Current position</legend>
               <label for="designation">Designation</label>

 <input type="text" id="designation" name="designation" required>

                  </fieldset>
            <label for="employer">Employer</label>  <input type="text" id="employer" name="employer" required> 
                  <label for="employerdesignation">Employer Designation</label>

            <input type="submit" id="submit" name="submit" value="Save & continue">
;/form>
```

Evaluation Result:

Proposed grade: 100.00 / 100 Result Description TEST CASE PASSED File List Save All Compile & Run Evaluate Full screen Description

```
FOREVER.html ♥ foreverbg.jpg ♥ forever.jpg ♥
                  1 <!-- do not make any changes in the template --
2 <!-- fill your code in the areas indicated -->
                        font-weight; bold;

| bosy|
| boksynound-inage:un'("foreverbg.jng");
| boksynound-singe:un'("foreverbg.jng");
| boblef|
| boksynound-singe:un'("foreverbg.jng");
| boblef|
| boksynound-sing:un'("foreverbg.jng");
| boblef|
| boksynound-sing:sus;
| samapin-jeft; un's;
| margin-jeft; un's;
| margin-jeft; oblop;
| boksynound-sing:sus;
| susbmit, meset(
| anagin-jeft; oblop;
| boksynound-color: singsfff;
| caption, table, tdf|
| boksynound-color: singsfff;
| caption, table;
|
                                                         }
input[type="tel"],input[type="email"],input[type="text"],
select,textarea, input[type="number"], input[type="url"],
input[type="date"]{
width:100%;
                                                        ctr>
  (td>clabel for="cname">Company name:/label>
  (td>clabel for="cname">Company name:/label>
  (td>clabel for="cname" name="company_name" id="cname" required/>
  (/tr>
                                                                        ctr>
  ctd>clabel>Typec/label>c/td>
  ctd>
  ctd>
  ciput type="radio" name="ctype" id="corporation"/>Corporation
  ciput type="radio" name="ctype" id="corporation"/>Partnecship
  ciput type="radio" name="ctype" id="individual"/>Individual
  ciput type="radio" name="ctype" id="individual"/>Individual
  ciput type="radio" name="ctype" id="individual"/>Individual
  ciput type="radio" name="ctype" id="id="others"/>Others
  ciput type="radio" name="ctype" id="others"/>Others

    ctd>clabel for="email">Email IDc/label>
    ctd>clabel for="email" name="email_id" id="email" required/>

                                                                         ctr>
    ctd>clabel for="address">location</label>
    ctd>ctd>ctd>ctextarea name="location" id="address" rows="4" cols="50" required></textarea>

                                                                         ctr)
  ctd><label for="link">Mebsite Address/|label>
ctd><input type="url" id="link" name="website_address" required>

     ctd>clabel for="expiry">TIN No Expiry Dates/label>
     ctd>clabel for="expiry" TIN No Expiry Dates/label>
     ctd>clabel>
     ctd>cinput type="date" id="expiry" name="tin_expiry" required>
     ctd>ctd>
     ctd>ctd>ctd>
     ctd>ctd>ctd>
     ctd>ctd>ctd>
     ctd>ctd>ctd>
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     ct
                                                                         ctds

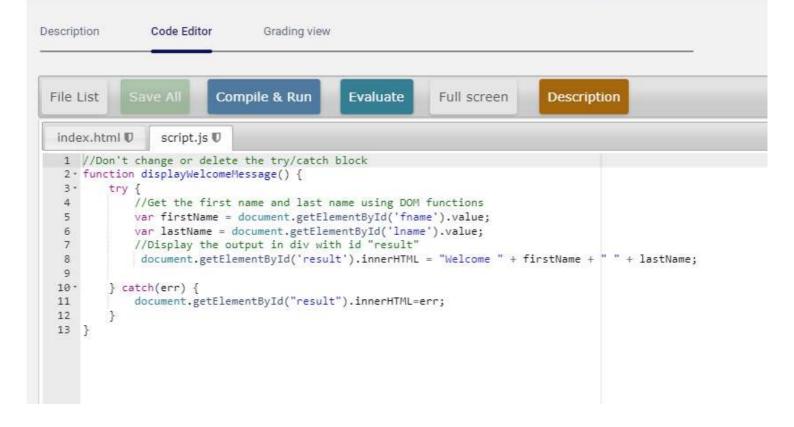
cinput type="range" id="cost" name="average_project_cost" min="25000" max="500000" step="1000" onchange="show_value(this.value);" requireds

(/tds)

(/tds)
```

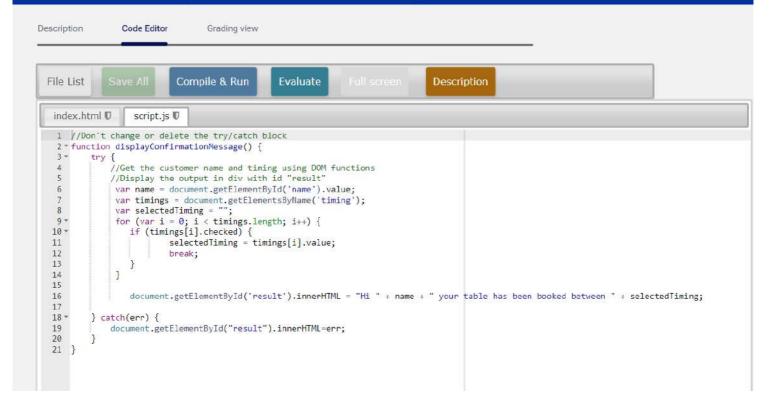
Dashboard / Primer 2.0 - App Dev / Stage 1 / Web Technologies / JavaScript

#### Practice program: Welcome Message

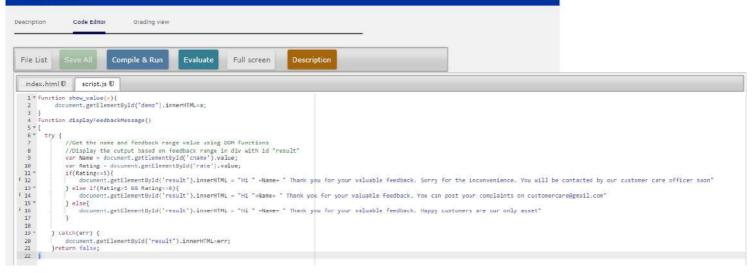


Dashboard / Primer 2.0 - App Dev / Stage 1 / Web Technologies / JavaScript

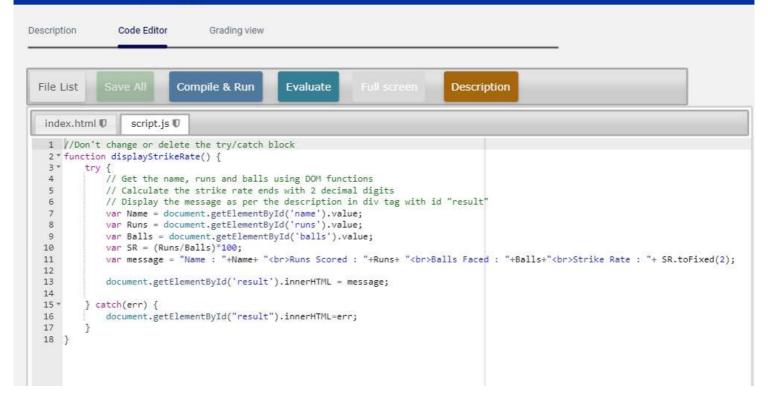
#### Practice program: Table Booking



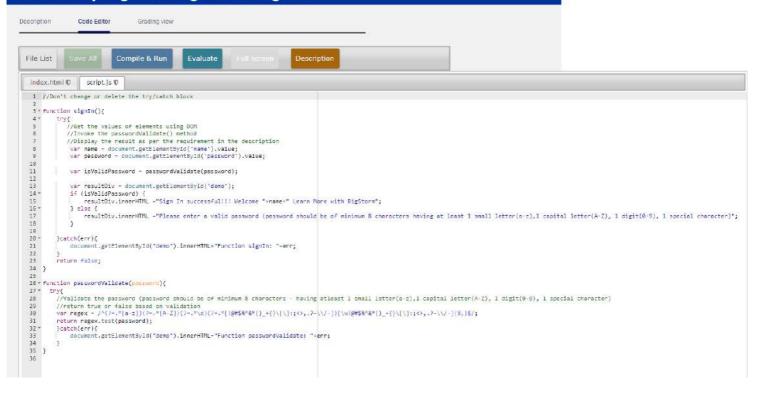




## Practice program: Strike Rate Finder



#### Practice program: BigStorm Sign In



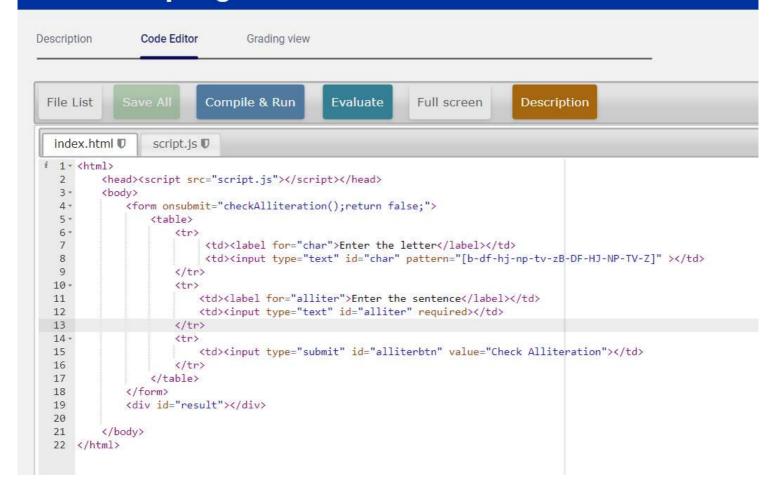
#### Practice program: Ugly Number

Description Code Editor Grading view Compile & Run Evaluate File List Full screen Description index.html 0 script.ts 0 1 7/Don't change or delete the try/catch block 3 function display() 6+ var imputNumber = document.getElementById('ugly').walue; 8 war resultDiv = document.getElementByld('result'); if (inputNumber |-- "") [ 181 33 var num - parasint(inputNumber); 72 13.0 IF (!isHaN(num)) { if (num + 8) [ 15 var isugly = checkuglyNumber(mm); 15 17.0 if (isugly) [ 18 alert(num = " is an ugly number"); 29 7 1 size ( alort(num + " is not an ugly number"); 20 21 22 -] sise [ alert("Invalid input"); 23 24 34. = ) else ( 16 alart("Please, specify a valid number input"); 27 7 clse ( 28 \* alert("Please, specify am input"); 29 30 ] catch (err) [ 31 alort("Error in display: " \* err); 33 33 34 35 1 36 Function checkinglyNumber(man) 37 = 7 // Check whather the new value is an egly number or not. If yes, return true. Else, return false 3.8 39 = 48 if (num <= 8) [ return false: 41 42 43. while (now % 2 --- 8) ( 45 mum /= 2; 46 47 = while (num % 3 --- #) [ 48 mun /- 3; 49 56 \* while (num % 5 --- 0) ( 53 mon / × Sp 52 53 return now --- 1; 54 55.7 ] catch (ecr) [ alort("Error in checkiglyMumber: " + err); cetern false; 59 50 )

## Practice program: Ugly Number

Code Editor Grading view Description File List Compile & Run **Evaluate** Full screen Description index.html 🛡 script.js U 1 <!--Do not make any change in this code template --> 2 3 <!DOCTYPE html> 4 \* <html lang="en"> 5 \* <head> <title>Ugly Number</title> 7 <script src="script.js"></script> 8 </head> 9 \* <body> 10 -<form onsubmit="display();return false;"> <!-- fill the code --> 11 <label for="ugly">Enter the number to check if it is an ugly number</label> 12 <input type="number" id="ugly" required> 13 <input type="submit" id="uglybtn" value="Check Ugly Number"> 14 15 </form> 16 17 <div id="result"></div> 18 19 </body> 20 </html>

## Practice program: Alliteration



## Practice program: Alliteration

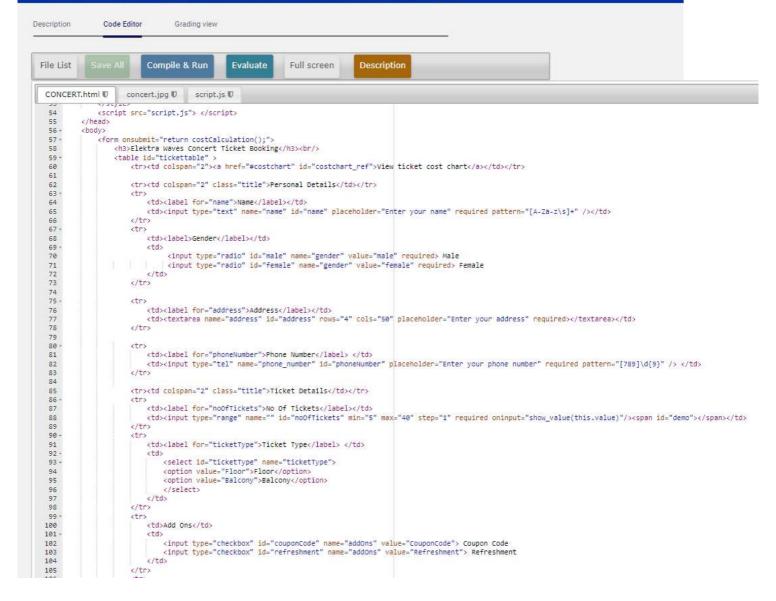
Description Code Editor Grading view Compile & Run **Evaluate** Description File List index.html U script.js 🛡 1 //Dont change or delete the try/catch block 3\* function checkAlliteration(){ 4± try{ 5 // Get the value of char & alliter components 6 // Invoke getCount() method - will return the number of words. // IF the number of words in the sentence is <3, display the corresponding output statement in div with 8 9 // ELSE, invoke validateSentence() method - will return true / false. 10 // IF false, display the corresponding output statement in div with id 'result' 11 12 13 // ELSE, Invoke getScore() - will return the calculated score. // Display the corresponding output statement in div with id 'result' 14 15 var char = document.getElementById('char').value.toLowerCase(); 16 var sentence = document.getElementById('alliter').value.toLowerCase(); 17 var wordCount = getCount(sentence); 18 19 if (wordCount < 3) { 20\* document.getElementById("result").innerHTML = "Invalid number of words"; 21 return false; 22 23 24 var isValidSentence = validateSentence(sentence); 25 27= if (!isValidSentence) { document.getElementById("result").innerHTML = "Invalid sentence"; 28 29 return false; 30 31 var Score = getScore(sentence, char); 32 document.getElementById("result").innerHTML ="Your score is "+Score; 33 34 35 return false; 36\* }catch(err){ document.getElementById("result").innerHTML="Function checkAlliteration: "+err; 37 38 39 } 40 41\* function getCount(str){ 42 = 43 44 // Calculates the number of words in str returns the count var words = str.split(" "); 45 46 return words.length; 47 }catch(err){ 48+ 49 document.getElementById("result").innerHTML="Function getCount: "+err; 50 51 } 52

```
53 * function validateSentence(str){
 54*
         try{
 55
 56
         // When any word of str starts with a vowel, return false; else, return true
 57
             var words = str.split(" ");
 58
 59
             var validCharCount = 0;
             for (var j = 1; j < words.length; j++) {
 60*
 61+
                 if (words[j][0].toLowerCase() === char) {
 62
                     validCharCount++;
 63
 64
 65
 66*
             if (words.length < 3 && words[0][0].toLowerCase() !== char) {
 67
                 return false;
 68
 69
             for (var i = 0; i < words.length; i++) {
 70 -
                 if (/^[aeiouAEIOU]/.test(words[i][0])) {
 71*
 72
                    return false;
 73
 74
 75
 76
             return true;
 77
 78+
         }catch(err){
 79
             document.getElementById("result").innerHTML="Function validateSentence: "+err;
 80
 81 }
 82
 83
 84* function getScore(str,char){
 85*
         try{
 86
         // Compare the first letter of every word from str with char, calculate and return the score
 87
 88
 89
             var words = str.split(" ");
 90
             var score = 0;
 91
 92*
             if(words[0][0].toLowerCase() !== char){
 93
                 score = 0;
 94
                 return score;
 95
 96
 97
             // Compare the first letter of every word from str with char
 98*
             for (var i = 1; i < words.length; i++) {
99 4
                 if (i < 3 && words[i][0].toLowerCase() === char) {
100
                     score += 1;
                 } else if (i >= 3 && words[i][0].toLowerCase() === char) {
101 "
                     // For each correct word after the first 3, a score of 2 is given
102
103
                     score += 2;
104
                 }
105
106
107
             return score;
108
109*
         }catch(err){
             document.getElementById("result").innerHTML="Function getScore: "+err;
110
111
112 }
113
```

## Practice program: Concert Ticket Booking

Description Code Editor Grading view Compile & Run Full screen File List Evaluate Description CONCERT.html ♥ script.js U 1 \* function show\_value(x) { document.getElementById("demo").innerHTML = x; 4 5 \* function costCalculation() { var noofTickets = parseInt(document.getElementById("noOfTickets").value); var ticketType = document.getElementById("ticketType").value; 7 var couponCode = document.getElementById("couponCode").checked; 8 9 var refreshment = document.getElementById("refreshment").checked; 10 var basePrice = (ticketType === "Floor") ? 400 : 500; var total = noofTickets \* basePrice; 11 12 var discount =0; 13 14 // Apply discount for more than 20 tickets 15 \* if (noofTickets > 20) { total \*= 0.9; // 10% discount 16 17 18 19 // Apply coupon code discount 20 \* if (couponCode) { discount = noofTickets \* basePrice \* 0.02; // 2% discount 21 22 total = total - discount; 23 24 25 // Add refreshment cost if (refreshment) { 26 \* total += 100; 27 28 29 total = Math.round(total); // Round to the nearest integer 30 document.getElementById("result").innerHTML = "Your ticket charge is Rs. " + total; 31 return false; 32 33 } 34

#### **Practice program: Concert Ticket Booking**



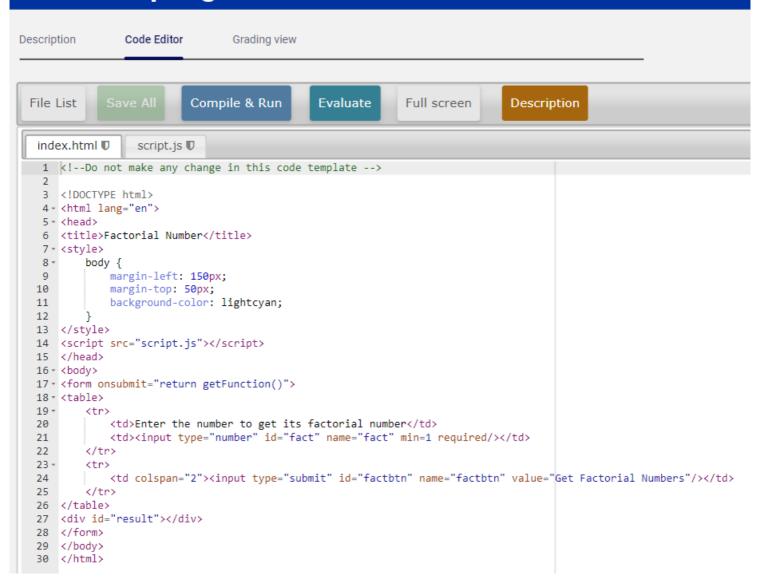
```
104
                 105
106*
                 <label for="cc">Coupon Code</label>
107
108*
109
                        <input type="text" name="couponCode" id="cc" list="couponCodes" autocomplete="on" required />
                        <datalist id="couponCodes">
110*
                        <option value="ELEKTRA20" id=couponCodes>
111*
                        <option value="SIMBA20" id="couponCodes">
112*
113
                        </datalist>
114
                     115
                  116
              117
              <br/><br/><br/>
118
119*
              <div id="buttons">
                 <input type="submit" name="Submit" id="submit" value="CONFIRM BOOKING" />
120
                 <input type="reset" name="Clear" id="clear" value="CLEAR" />
121
              </div>
122
123
              <br/>
              <div id="result"> </div>
124
              <br/><br/>
125
126
127*
              128
                 <caption>Ticket Cost Chart</caption>
129*
                    Ticket Type
130
131
                    Base Price
132
                    On Booking more than 20 tickets
133
                    On applying coupon code
134
                 135*
                 136
                    Floor
137
                    400
138
                    10% discount
139
                    2% discount
140
                 141-
                 (tr>
                    Balcony
142
143
                    500
144
                     10% discount
145
                     2% discount
146
                 147*
                 <tfoot>
148*
                       * You must pay Rs.100 extra on choosing Refreshment!
149
150
                     151
                  </tfoot>
              152
           </form>
153
       </body>
154
155 </html>
```

```
64 </head>
      the stage was
65 Chodys
66 <h1>Aqua Fish Stall</h1>
67* <form onsubmit="return getDisplay()" id="mainForm">
68* 
69=
      Ktra
         Customer Name
70
         <input type="text" id="name" placeholder="Enter your name">
71
72
      73=
      str>
74
         Phone Number
 75
         <input type="tel" id="phonenumber" placeholder="Enter your phone number">
      76
77 <hr>
78
79* 
89-
      Ktra
81
         Anchovy
         <input type="number" id="anchovy" min="0" step="0.5"> in Kg
82
      83
84-
      ktro-
        ktd>Barracudak/td>
85
         <input type="number" id="barracuda" min="0" step="0.5"> in Kg
86
     87
88-
      ctra
89
          ktd>Crabk/td>
98
         <input type="number" id="crab" min="0" step="0.5"> in Kg
91
     k/tr>
92 -
      ktr>
93
          King Mackerel
          <input type="number" id="kingmackerel" min="0" step="0.5"> in Kg
94
      95
96=
      Kitha
97
          Pomfret
         <input type="number" id="pomfret" min="0" step="0.5"> in Kg
98
99
     c/tr>
100" ktr>
         Prawn
181
         <input type="number" id="prawn" min="0" step="0.5"> in Kg
182
     183
184=
     185
         Salmon
         <id><input type="number" id="salmon" min="0" step="0.5"> in Kg
196
     k/tr>
187
108-
      109
         Sardine
110
         <tinput type="number" id="sardine" min="0" step="0.5"> in Kg
      k/tr>
111-
112=
      ktrs
113
         Shark
         <input type="number" id="shark" min="0" step="0.5"> in Kg
114
     115
116=
      otins.
117
       Tilapia
         <input type="number" id="tilapia" min="0" step="0.5"> in Kg
118
119
      120 
121 <input type="submit" value="Submit" id="submit"/>
122 <div id="result"></div>
123 </form>
124 K/body>
125 </html>
```

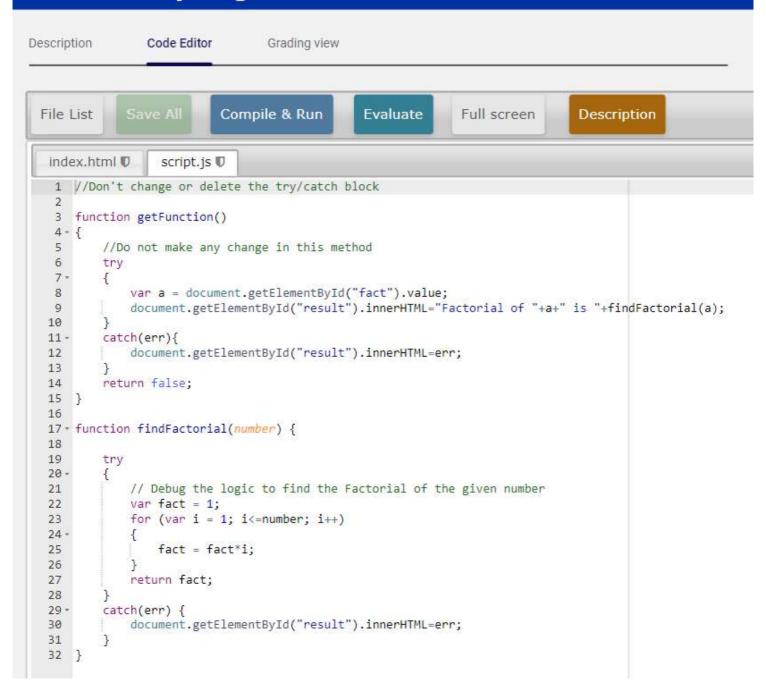
#### Practice program: Aqua Fish Stall - Js Debug

Code Editor Grading view Description File List Compile & Run Evaluate Full screen Description index.html D script.js U 1 //Don't change or delete the try/catch block 3 function getDisplay() 4+ { 5 try 6 . //Debug and display the message as per the description in div tag with id "result" var name = document.getElementById("name").value; 8 19 var phonenumber = document.getElementById("phonenumber").value; 10 var total = getTotalAmount(); document.getElementById("result").innerHTML="Please pay \$"+total; 12 13 catch(err) { document.getElementById("result").innerHTML=err; 14 15 return false; 16 17 18 19 function getTotalAmount() 28 - { // Debug this Javascript code to calculate the cost of fish and return the total amount 21 22 var sum = 0: 23 try 24 + if(document.getElementById("anchovy").value) { 25 -26 sum += document.getElementById("anchovy").value\*2; 27 if(document.getElementById("barracuda").value) { 28 -29 sum += document.getElementById("barracuda").value\*5; 38 if(document.getElementById("crab").value) { 31 sum += document.getElementById("crab").value\*3; 37. 33 if(document.getElementById("kingmackerel").value) { 34 sum += document.getElementById("kingmackerel").value\*10; 35 36 if(document.getElementById("pomfret").value) { 37 . sum += document.getElementById("pomfret").value\*9; 38 39 40 if(document.getElementById("prawn").value) { 41 sum += document.getElementById("prawn").value\*3; 42 43 if(document.getElementById("salmon").value) { 44 sum += document.getElementById("salmon").value\*6; 45 45 if(document.getElementById("sardine").value) { 47 sum += document.getElementById("sardine").value\*2; 48 if(document.getElementById("shark").value) { 49 + sum += document.getElementById("shark").value\*5; 50 51 if(document.getElementById("tilapia").value) { 52 sum += document.getElementById("tilapia").value\*4; 53 54 55 return sum; 56 57 catch(err) { 58 document.getElementById("result").innerHTML=err; 59 60 }

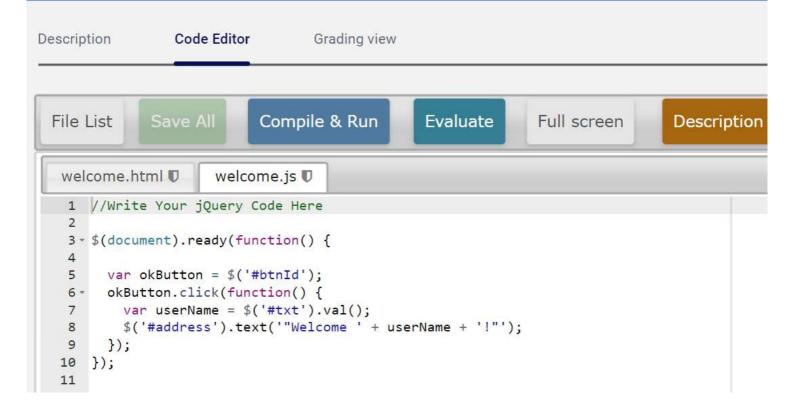
## Practice program: Factorial Number - Js



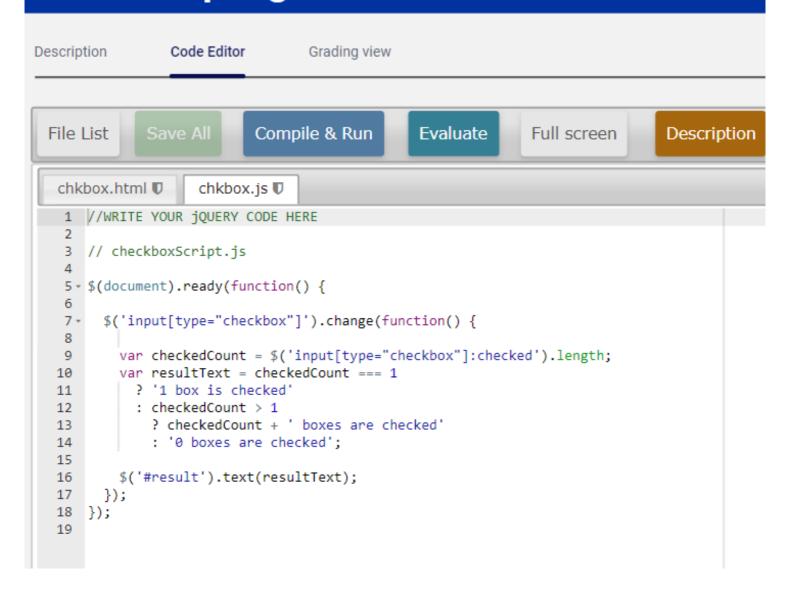
## Practice program: Factorial Number - Js



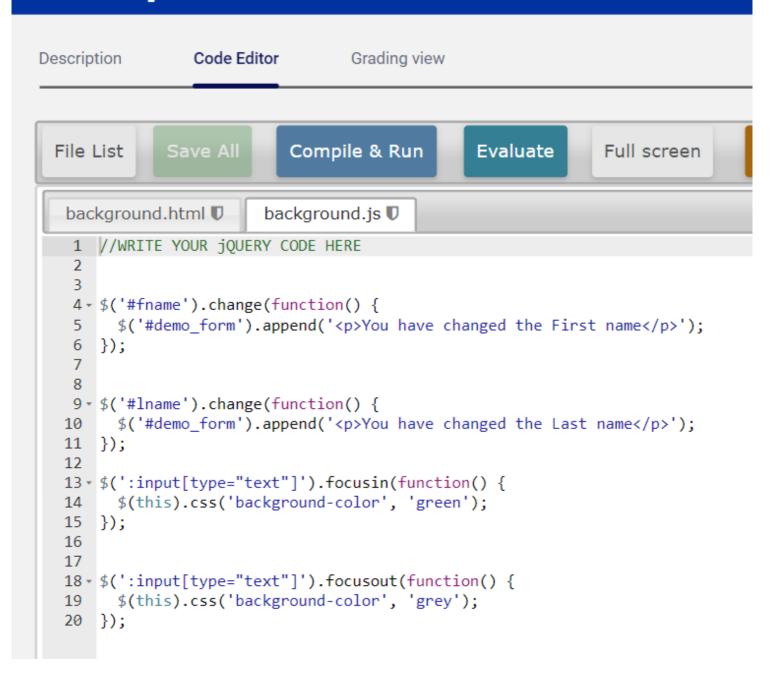
## Practice program: Welcome Message



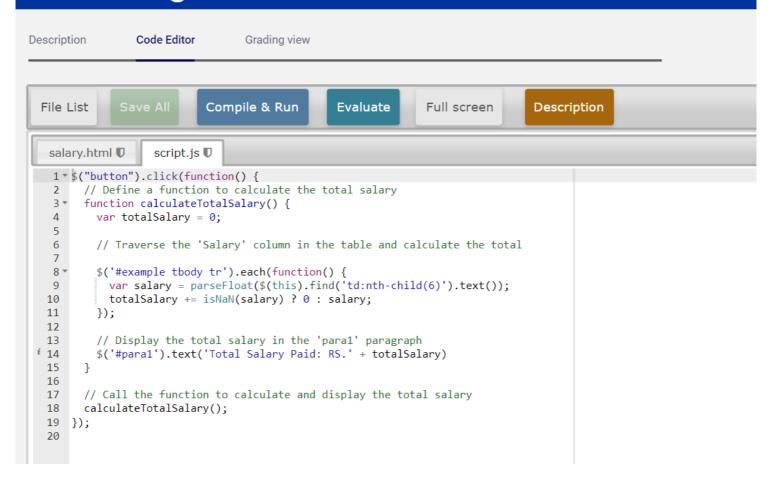
## Practice program: Select the Boxes



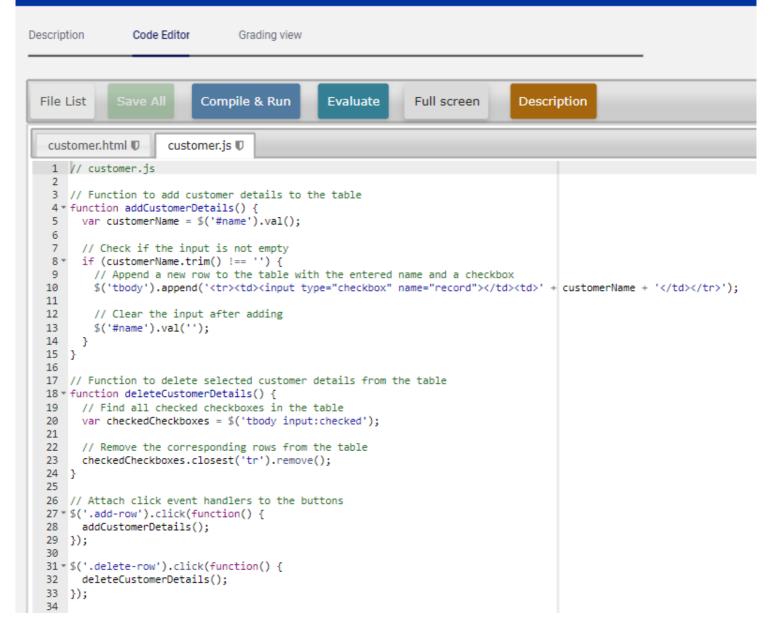
## Practice program: Change the Ba Manipuation



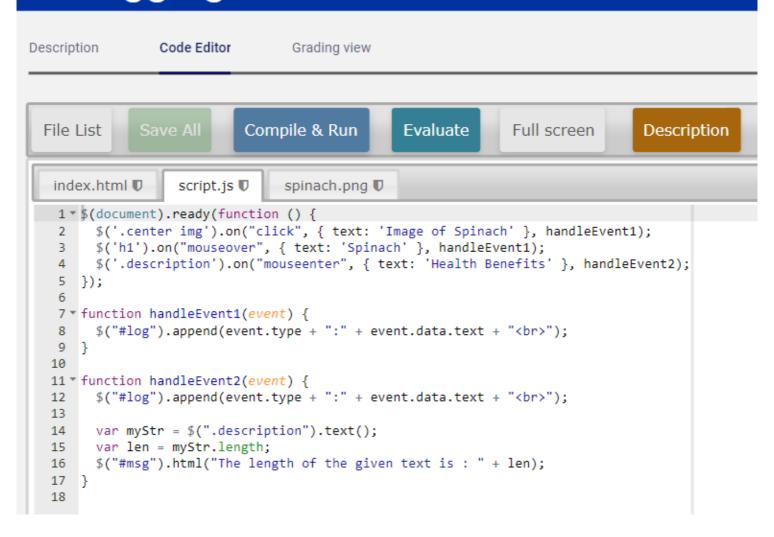
## Practice program: Employee Salary Calculation - Traversing



#### Practice program: Customer Data - Events



# Practice program: JQuery Events Log - Debugging



## Practice program: JQuery Events in Sign In Page Code Debugging

