

# Programming Concepts

## Week 5 **Credit** Submission Tasks Template

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### Credit Task 5 HTML code page

Paste the HTML code of the web page here.

w5C1.html	w5C1.js
<pre>1 &lt;!DOCTYPE html&gt; 2 &lt;html lang="en"&gt; 3 &lt;head&gt; 4   &lt;meta charset="utf-8" /&gt; 5   &lt;meta name="description" content="Credit level task" /&gt; 6   &lt;meta name="keywords" content="postcode,validation,javascript, js" /&gt; 7   &lt;meta name="author" content="Mario Stavreski" /&gt; 8   &lt;title&gt;Postcode validation&lt;/title&gt; 9   &lt;script src="w5C1.js"&gt;&lt;/script&gt; 10 11 &lt;/head&gt; 12 &lt;body&gt; 13 &lt;header&gt; 14 &lt;/header&gt; 15 &lt;article&gt; 16 17   &lt;form&gt; 18     &lt;label&gt; Postcode: &lt;input type="text" id="postcode" /&gt; &lt;/label&gt; 19     &lt;button type="button" id="check"&gt; Submit &lt;/button&gt; 20   &lt;/form&gt; 21 22   &lt;p id="msg"&gt;&lt;/p&gt; 23 24 &lt;/article&gt; 25 &lt;footer&gt;&lt;p&gt;Produced by Mario Stavreski&lt;/p&gt;&lt;/footer&gt; 26 &lt;/body&gt; 27 &lt;/html&gt; 28</pre>	

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### Credit Task 5 JavaScript code

Paste the JavaScript code of the same page here.

```

1  /* Filename: [w5C1].js
2     Target html: [ w5C1.html]
3     Purpose : [ This js file assigns a Australian State to valid Postcode ]
4     Author: Mario Stavreski
5     Date written: 17/04/2020
6     Revisions: v1.0
7  */
8
9
10 // [ the pcodeToState function returns a state name corresponding to first digit of pcode passed as parameter]
11 function pcodeToState(pcode){
12
13     var state;
14
15     var firstDigit= pcode.charAt(0);
16
17     switch (firstDigit) {
18         case '2':
19             state = "NSW";
20             break;
21         case '0':
22             state = "Northern Territory";
23             break;
24         case '3':
25             state = "Victoria";
26             break;
27         case '8':
28             state = "Victoria";
29             break;
30         case '4':
31             state = "Queensland";
32             break;
33         case '9':
34             state = "Queensland";
35             break;
36         case '5':
37             state = "South Australia";
38             break;
39         case '6':
40             state = "Western Australia";
41             break;
42         case '7':
43             state = "Tasmania";
44             break;
45
46         default:
47             state=" Not such state exists";
48     }
49
50     return state;
51 }
52
53 // [ the isPcodeValid function verifies if the pcode entered by user is of length 4 and digits only]
54 function isPcodeValid(pcode){
55     var valid=true;
56
57     if (pcode.length !=4)
58     {
59         valid=false;
60     }
61     else if(isNaN(pcode))
62     {
63         valid=false;
64     }
65     return valid;
66 }
67

```

```

67
68 // [ the validateInput function displays the result if credit card expiry in the <p> tag of html document]
69 function validateInput(pcode)
70 {
71     var ausState;
72     if(isPCodeValid(pcode))
73     {
74         ausState=pcodeToState(pcode);
75     }
76     else{
77         ausState=("Not a valid PCode");
78     }
79     document.getElementById("msg").innerText=ausState;
80 }
81
82
83 function value(){
84
85     var code = document.getElementById("postcode").value;
86     validateInput(code);
87 }
88
89 function init() {
90
91     var btnCheck= document.getElementById("check");
92     btnCheck.onclick=value;
93 }
94
95 window.onload = init;
96

```

Credit Task 5 web page testing (10 screenshots, one resulting in “invalid” message and 9 screenshots testing every valid first digit)

Paste the screen captures of your testing web page here.

Postcode:

Not a valid PCode

Produced by Mario Stavreski

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Postcode:

Queensland

Produced by Mario Stavreski

Postcode:

Victoria

Produced by Mario Stavreski

Postcode:

Tasmania

Produced by Mario Stavreski

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Postcode:

Western Australia

Produced by Mario Stavreski

---

Postcode:

South Australia

Produced by Mario Stavreski

Postcode:

Queensland

Produced by Mario Stavreski

---

Postcode:

Victoria

Produced by Mario Stavreski

Postcode:

NSW

Produced by Mario Stavreski

---

Postcode:

Northern Territory

Produced by Mario Stavreski

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[Credit Task 6 HTML code page](#)

Paste the HTML code of the web page here.

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="description" content="Expiry Date Validation" />
6   <meta name="keywords" content="javascrip, html, credit card validation" />
7   <meta name="author" content="Mario Stavreski" />
8   <title>Expiry Date Validation</title>
9   <script src="w5C2.js"></script>
10 </head>
11 <body>
12 <header>
13 </header>
14 <article>
15   <form>
16     <p>Credit card expity date </p>
17     <label>MONTH: <input type="text" id="monthNo" /> </label>
18     <label>YEAR: <input type="text" id="year" /> </label>
19     <button type="button" id="check">Check</button>
20   </form>
21
22   <p id="msg"></p>
23
24
25 </article>
26
27 <footer><p>Produced by Mario Stavreski</p></footer>
28 </body>
29 </html>

```

## Credit Task 6 JavaScript code

Paste the JavaScript code of the same page here.



```

1  /* Filename: [ w5C2].js
2     Target html: [ w5C2.html]
3     Purpose : [ This js file checks for credit card expity date if the card is valid or not]
4     Author: Mario Stavreski
5     Date written: 17/04/2020
6     Revisions: v1.0
7  */
8
9  // [ the init function is called when the html document is fully loaded]
10 function init() {
11     // [ validateMonth function returns true or false based on the month number passed as a parameter]
12     function validateMonth(month)
13     {
14         var valid = true;
15         if(isNaN(month))
16         {
17             valid = false;
18         }
19         else
20         {
21             var num = parseInt(month);
22             if (num <1 || num >12)
23             {
24                 valid = false;
25             }
26         }
27         return valid;
28     }
29
30     // [ validateMonth function returns true or false based on the Year value passed as a parameter]
31     function validateYear(yr)
32     {
33         var valid = true;
34         if(isNaN(yr))
35         {
36             valid=false;
37         }
38         else
39         {
40             var num = parseInt(yr);
41             var d = new Date();
42             if((num > (d.getFullYear()+5)) || (num < d.getFullYear()))
43             {
44                 valid = false;
45             }
46         }
47         return valid;
48     }
49 }
50

```

```

51 // [ validateExpiry function displays the result in paragraph <p> after verifying the validity of credit card]
52 function validateExpiry()
53 {
54     var month = document.getElementById("monthNo").value;
55     var year = document.getElementById("year").value;
56     var output="";
57     var validMonth= validateMonth(month);
58     var validYear= validateYear(year);
59     if(validMonth && validYear)
60     {
61         output="Expiry Date is Valid";
62     }
63     else
64     {
65         output="Expiry Date is invalid";
66     }
67     console.log(output);
68     document.getElementById("msg").innerText= output;
69 }
70
71 var btnCheck= document.getElementById("check");
72 btnCheck.onclick=function() {validateExpiry()};
73
74
75 }
76
77 window.onload = init;
78

```

## Credit Task 6 web page testing

Paste the screen captures of your testing web page here.

Credit card expiry date

MONTH:  YEAR:

Expiry Date is Valid

Produced by Mario Stavreski

Credit card expiry date

MONTH:  YEAR:

Expiry Date is invalid

Produced by Mario Stavreski

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[Credit Task 14 HTML code page](#)

Paste the HTML code of the web page here.

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="utf-8" />
5    <meta name="description" content="CSS Flexbox" />
6    <meta name="keywords" content="Think which keywords!!!" />
7    <meta name="author" content="Tanya Linden" />
8    <title>CSS Flexbox Credit Task</title>
9    <link rel="stylesheet" type="text/css" href="w5C3.css">
10
11 </head>
12 <body id="body">
13 <header id="header">
14   <h2> Mario Stavreski ID: 103055993 </h2>
15   <h1> Pet Games </h1>
16   <h1> Games to play with your pet </h1>
17 </header>
18 <article id="article">
19
20   <section id="dog">
21     <h2> Dog </h2>
22     <ul>
23       <li>Fetch</li>
24       <li>Hide and Seek</li>
25       <li>Shake hands</li>
26     </ul>
27     
28   </section>
29
30   <section id="cat">
31     <h2> Cat </h2>
32     <ul>
33       <li>Fetch</li>
34       <li>Light</li>
35       <li>Paper bag</li>
36     </ul>
37     
38
39   </section>
40
```

```
40
41 <section id="goldfish">
42 <h2> Goldfish </h2>
43 <ul>
44 <li>Floating decorations</li>
45 <li>Draw on fish tank</li>
46 <li>Swim through loops</li>
47 </ul>
48 
49 </section>
50
51 <section id="parrot">
52 <h2> Parrot </h2>
53 <ul>
54 <li>Staircase dash</li>
55 <li>Bird Basketball</li>
56 <li>Teach is to talk</li>
57 </ul>
58 
59
60 </section>
61
62 </article>
63 <footer id="footer">
64
65 <h2> Follow up </h2>
66 <p> If you have suggestions for other games to play with your pets, then please contact me at the following email address thepetguywithideas@hotmail.com.au </p>
67
68 </footer>
69 </body>
70 </html>
71
```

## Credit Task 14 CSS code page

Paste the CSS code of the web page here.

```
1  #body {
2    background-color: tan ;
3    margin: 20px;
4  }
5  #header {
6    background-color: royalblue;
7  }
8
9  #article {
10   display: flex;
11   display: -webkit-flex; /* Safari */
12   background-color: grey;
13   justify-content: space-around;
14   padding: 20px;
15 }
16
17 #footer {
18   background-color: royalblue;
19 }
20
21 #dog {
22   background-color: lightskyblue;
23   padding: 20px;
24 }
25
26 #cat {
27   background-color: lightgrey;
28   padding: 20px;
29 }
30
31 #goldfish {
32   background-color: gold;
33   padding: 20px;
34 }
35
36 #parrot {
37   background-color: seagreen ;
38   padding: 20px;
39 }
40
```

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Credit Task 14 web page screenshot

Paste the screen capture of your web page here.

Mario Stavreski ID: 103055993

## Pet Games

### Games to play with your pet

#### Dog

- Fetch
- Hide and Seek
- Shake hands



#### Cat

- Fetch
- Light
- Paper bag



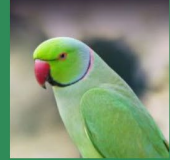
#### Goldfish

- Floating decorations
- Draw on fish tank
- Swim through loops



#### Parrot

- Staircase dash
- Bird Basketball
- Teach is to talk



#### Follow up

If you have suggestions for other games to play with your pets, then please contact me at the following email address [thepetguywithideas@hotmail.com.au](mailto:thepetguywithideas@hotmail.com.au)