

1. Description of problem i am working on
 - I decided to work on the Credit Card validation problem. In this programme we will check the number of input that is credit card number that is valid or not valid.
2. What are the variable?
 - Let log
3. What are the input
 - We will input some number
4. What Solution look like
 - I have to use Luhn algorithm to verify the number
 -

```
<!DOCTYPE html>
<!-- Example of form validation for class CISC3140
      Brooklyn College
      author: @katychuang
-->

<html>

<head>
  <title>Change me</title>
  <meta charset="utf-8" />
  <link rel="stylesheet" type="text/css" href="style.css">
</head>

<body>

<h1>Credit Card Validator</h1>
<form>
  <div>
    <label for="changeme">Example of Input Field:</label>
    <input type="text" id="changeme" name="changeme" required
      minlength="10" maxlength="20" size="10"
      oninput="checkVal(this);"/>
  </div>
  <div>
    <label for="inputmask">With Input Mask:</label>
    <input type="text" id="inputmask"
      minlength="10" maxlength="20" size="20"
      oninput="checkVal(this);|
      onkeyup="whitespacing(this.value)"/>
  </div>
  <input type="submit" id="submit" value="Submit" onClick="submitVal(this.form); return false;" class="btn submit hidden" />
</form>
  <p>&nbsp;</p>

</body>
<script src="script.js"></script>
</html>
```

```
script.js x
1  /** Example of form validation for class CISC3140
2     Brooklyn College
3     author: @katychuang
4  */
5
6  function checkVal(v){
7     /* uncomment the line below to view v in the console */
8     //console.log(v);
9     console.log(v.value);
10
11     let log = document.querySelector('p');
12
13     //display placeholder
14     if (v.value.length > 4){
15         log.textContent = `the value is ${v.value.length} character(s) long`;
16     }
17
18     if (v.value.length > 10) {
19         // conditional to show submit button
20         document.getElementById("submit").classList.remove("hidden");
21     }
22 }
23
24 function whitespacing(v){
25     let enteredValue = document.querySelector('input#inputmask');
26
27     if (v.match(/^\d{4}$/) !== null) {
28         enteredValue.value = v + ' ';
29     } else if (v.match(/^\d{4}\ \d{4}$/) !== null) {
30         enteredValue.value = v + ' ';
31     }
32 }
33
```

```
/** Example of form validation for class CISC3140
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**/

body {
  background-color: #FFFFFF;
  font-family: Arial, Helvetica, sans-serif;
}

body h1 {
  background-color: #AAAAAA;
  color: white;
  font-family: monospace;
}

.btn {
}

.btn submit {
  color: green;
}

.hidden {
  display: none;
}

/* Example of using media queries for responsive design */
@media (max-width: 1000px) {
  body { background-color: pink;}
}

@media (max-width: 600px) and (min-width:200px) {
  body { background-color: purple;}
}
```