```
1 <!-- I found the concept of encapsulation a bit difficult to get my head around. But
  with some help from my fellow classmates I finally got the picture -->
 2 <!-- In the end, I think this encapsulation way of doing JavaScript to be pretty cool
   -->
 3 <!DOCTYPE html>
 4 <html lang="en">
 5 <head>
       <meta charset="UTF-8">
 6
 7
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>IS 542 - Homework 3</title>
 8
9
       <script>
10
           const validator = (function() {
               let isValid = true;
11
               regexEmailValid = /^(([^<>()\[\]\\.,;:\s@"]+(\.[^<>()\[\]\\.,;:\s@"]+)*)|
12
   (".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-
   zA-Z]{2,}))$/;
13
14
               return {
15
                    isNumeric: function(text) {
                        isValid = !isNaN(text);
16
17
                    },
18
                    isInteger: function(text) {
19
                        isValid = Number.isInteger(text);
20
21
                    isPositiveInteger: function(text) {
                        isValid = Number.isInteger(text) && text > 0;
22
23
24
                    isNegativeInteger: function(text) {
25
                        isValid = Number.isInteger(text) && text < 0;</pre>
26
                    },
27
                    isNonNegativeInteger: function(text) {
28
                        isValid = Number.isInteger(text) && text >= 0;
29
                    },
30
                    isInRange: function(text, m, n) {
31
                        if (!isNaN(text)) {
32
                            if (m === undefined) {
33
                                isValid = text <= n;</pre>
34
                            } else if (n === undefined) {
35
                                isValid = text >= m;
36
                            } else {
37
                                isValid = text <= n && text >= m;
38
                            }
39
                        } else {
                            isValid = false;
40
                        }
41
42
43
                    isValidEmail: function(text) {
44
                        isValid = regexEmailValid.test(text);
45
                   },
46
                    isNonEmpty: function(text) {
                        isValid = (typeof text === "string" && text != "");
47
48
                    },
49
                    lengthIsInRange: function(text, m, n) {
                        if (typeof text === "string") {
50
51
                            if (m === undefined) {
52
                                isValid = text.length <= n;</pre>
                            } else if (n === undefined) {
53
54
                                isValid = text.length >= m;
55
                            } else {
                                isValid = text.length <= n && text.length >= m;
56
```

```
}
} else {
57
58
                            isValid = false;
59
                        }
60
                   },
61
                   matchesRegex: function(text, regex) {
62
                       isValid = regex.test(text);
63
64
                    isValid: function() {
65
                        return isValid;
66
67
                   },
                   reset: function() {
68
                        isValid = true;
69
                   }
70
71
               };
           }());
72
73
       </script>
74 </head>
75 <body>
76
77 </body>
78 </html>
```