```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4
       <meta charset="UTF-8">
5
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>IS 542 - Homework 4</title>
6
7 </head>
8
9 <body>
10 <label for="yourName">What is your name?</label><br>
11 <input type="text" id="yourName"><br>
13 <label for="yourEmail">What is your Email?</label><br>
14 <input type="text" id="yourEmail"><br>
16 <label for="yourRating">On a scale of 1-10, with 10 being most difficult, how
  difficult is it to learn JavaScript?</label><br>
17 <input type="text" id="yourRating"><br>
18 <br>
19 <label for="yourDate">When is your graduation date? (Use MM/DD/YYYY format)</label>
   <br>
20 <input type="text" id="yourDate"><br>
21 <br>
22 <br>
23 <button type="button" onclick="validateForm()">SUBMIT</button>
24
25 <div id="formValid"></div>
26
27 </body>
28
29 <script>
30
       const validator = (function() {
           let isValid = true;
31
32
           let validErrors = [];
33
           const errorDiv = document.getElementById("formValid");
           regexEmailValid = /^(([^<>()\[\]\\.,;:\s@"]+(\.[^<>()\[\]\\.,;:\s@"]+)*)|
34
   (".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-
   zA-Z]{2,}))$/;
35
36
           return {
37
               isNumeric: function(text) {
38
                   isValid = !isNaN(text);
39
               isInteger: function(text) {
40
                   isValid = Number.isInteger(text);
41
42
43
               isPositiveInteger: function(text) {
44
                   isValid = Number.isInteger(text) && text > 0;
45
46
               isNegativeInteger: function(text) {
                   isValid = Number.isInteger(text) && text < 0;</pre>
47
48
               },
49
               isNonNegativeInteger: function(text) {
50
                   isValid = Number.isInteger(text) && text >= 0;
51
               },
               isInRange: function(text, m, n) {
52
                   if (isNaN(text) || text == "") {
53
54
                       isValid = false;
                       validErrors.push("Please input a number between 1 and 10");
55
                   } else if (!isNaN(text) && ((text < m) || (text > n))) {
56
```

```
57
                         isValid = false;
 58
                         validErrors.push("Please input a number 1 between and 10")
 59
 60
                },
                isValidEmail: function(text) {
 61
                     if (!regexEmailValid.test(text)) {
 62
 63
                         isValid = false;
                         validErrors.push("Please enter a valid email");
 64
                     }
 65
                },
 66
                isNonEmpty: function(text) {
 67
                     if (typeof text !== "string" || text == "") {
 68
 69
                         isValid = false;
 70
                         validErrors.push("Please enter your name");
 71
                     }
 72
                },
                lengthIsInRange: function(text, m, n) {
 73
                     if (typeof text === "string") {
 74
 75
                         if (m === undefined) {
 76
                             isValid = text.length <= n;</pre>
 77
                         } else if (n === undefined) {
 78
                             isValid = text.length >= m;
 79
                         } else {
                             isValid = text.length <= n && text.length >= m;
 80
 81
                         }
                     } else {
 82
                         isValid = false;
 83
 84
                     }
                },
 85
                matchesRegex: function(text, regex) {
 86
 87
                     if (!regex.test(text)) {
                         isValid = false;
 88
                         validErrors.push("Please enter a valid date in the specified
 89
    format");
 90
                     }
 91
                },
 92
                isValid: function() {
 93
                     if (!isValid) {
 94
                         validErrors.forEach(element => errorDiv.innerHTML += `<p</pre>
    style="color:red;">${element}`);
 95
 96
                },
 97
                reset: function() {
 98
                     isValid = true;
 99
                     validErrors = [];
                     errorDiv.innerHTML = "";
100
101
                }
102
            };
        }());
103
104
105
        function validateForm() {
106
            validator.reset();
            validator.isNonEmpty(document.getElementById("yourName").value);
107
            validator.isValidEmail(document.getElementById("yourEmail").value);
108
            validator.isInRange((document.getElementById("yourRating").value),1,10);
109
            validator.matchesRegex((document.getElementById("yourDate").value), /^(0?[1-
110
    9]|1[012])[- /.](0?[1-9]|[12][0-9]|3[01])[- /.](19|20)?[0-9]{2}$/);
111
            validator.isValid();
        }
112
113 </script>
```