```
1    // ****************Homework4 Pt I script************************
2    $(document).ready(function () {
3        // Allows users to move items inside draggable in browser
4        $( "#draggable" ).draggable();
5    });
6
7
8    // ****************Homework4 Pt I script************************
9    document.addEventListener("DOMContentLoaded", function() {
10       // Get references to the click button and result elements
11       var calculateButton = document.getElementById("calculateButton");
12       var resultDiv1 = document.getElementById("result1");
13       var resultDiv2 = document.getElementById("result2");
14
15
16       // function to calculate product and sum of every 4 integers between 5-25
17       function fourProdSum() {
18           var fourProd = 1; // Initialize fourProd to 1 for multiplication
19           var fourSum = 0;  // Initialize fourSum to 0 for addition
20
21           for (var fourCounter = 5; fourCounter <= 25; fourCounter += 4) {
22               fourProd *= fourCounter; // Multiply every fourCounter
23               fourSum += fourCounter;  // Add every fourCounter
24           }
25
26           return { fourProd: fourProd, fourSum: fourSum };
27       }
28
29       // function to calculate product and sum of every 3 integers between 3-18
30       function threeProdSum() {
31           var threeProd = 1; // Initialize threeProd to 1 for multiplication
32           var threeSum = 0;  // Initialize threeSum to 0 for addition
33           var threeCounter = 3; // Initialize threeCounter to 3
34
35           while (threeCounter <= 18) {
36               threeProd *= threeCounter; // Multiply every threeCounter
37               threeSum += threeCounter;  // Add every threeCounter
38               threeCounter += 3; // Increment threeCounter by 3
39           }
40
41           return { threeProd: threeProd, threeSum: threeSum };
42       }
43
44       // Attach a click event listener to calculateButton1
45       calculateButton1.addEventListener("click", function() {
46           // Call the fourProdSum function when the button is clicked
47           var result1 = fourProdSum();
48
49           // Formatted result message for Result1
50           var resultMessage =
51           "The result of 5 * 9 * 13 * 17 * 21 * 25 is " +
52           "<span style='font-weight: bold; color: #417bcb;'>" +
53           result1.fourProd.toLocaleString() +
54           "</span>" +
55           "<br>The result of 5 + 9 + 13 + 17 + 21 + 25 is " +
56           "<span style='font-weight: bold; color: #417bcb;'>"+
57           result1.fourSum
58           "</span>";
59
60           // Display the result message in the resultDiv (using innerHTML to interpret
             HTML tags)
61           resultDiv1.innerHTML = resultMessage;
62       });
63
64       calculateButton2.addEventListener("click", function() {
65           // Call the fourProdSum function when the button is clicked
66           var result2 = threeProdSum();
67
68           // Formatted result message for Result2
```

```
69          var resultMessage =
70          "The result of 3 * 6 * 9 * 12 * 15 * 18 is " +
71          "<span style='font-weight: bold; color: #417bcb;'>" +
72          result2.threeProd.toLocaleString() +
73          "</span>" +
74          "<br>The result of 3 + 6 + 9 + 12 + 15 + 18 is " +
75          "<span style='font-weight: bold; color: #417bcb;'>" +
76          result2.threeSum +
77          "</span>";
78
79          // Display the result message in the resultDiv (using innerHTML to interpret
            HTML tags)
80          resultDiv2.innerHTML = resultMessage;
81      });
82  });
```