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

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