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1 // *****Homework 4 Extra Credit Script*****
2
3 // Validate input and run the createBox function
4 document.getElementById("submit").addEventListener("click", function () {
5     // Clear the previous result
6     document.getElementById("asteriskSquareResult").innerHTML = "";
7     const userInput = parseInt(document.getElementById("userInput").value);
8     // Run function createBox only if there's input value and number value
9     if (!isNaN(userInput) && userInput >= 2 && userInput <= 10) {
10         const boxHtml = createBox(userInput);
11         document.getElementById("asteriskSquareResult").innerHTML = boxHtml;
12         document.getElementById("errorText").textContent = "";
13     } else { // Error message for user
14         document.getElementById("errorText").textContent = "Please enter a number
15         between 2-10!";
16     }
17 });
18
19 // Clear the result when the "Reset" button is clicked
20 document.getElementById("reset").addEventListener("click", function () {
21     document.getElementById("asteriskSquareResult").innerHTML = "";
22     document.getElementById("errorText").textContent = "";
23 });
24
25 // Function to create a box using asterisks
26 function createBox(number) {
27     let result = ''; // declare string variable
28     // Loop to run from 0 to number less than provided by userInput
29     for (let row = 0; row < number; row++) {
30         // Loop to run inside the row loop to display asterisks
31         for (let column = 0; column < number; column++) {
32             if (row === 0 || row === (number - 1) || column === 0 || column ===
33             (number - 1)) {
34                 result += '* '; // * For first and last columns and top and bottom
35                 row
36             } else {
37                 result += '&nbsp;&nbsp;&nbsp;'; // Empty space inside the box
38             }
39         }
40         result += '<br>'; // Next line once column loop ends
41     }
42     return result; // Display result to user
43 }

```