```
1 <!-- PRACTICAL-7: Take input from user through prompt box and store it in an array. Calculate the Factorial of each
   number present in the array using iterative method of array and generate the resultant array of factorial values. [Bonus
   Program: Create the same program combining the iterative methods concept and recursion.]
 2
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 6
 7
   <!-- CODE -->
 8
 9 <!DOCTYPE html>
10 < html lang="en">
11 <head>
12 <meta charset="UTF-8">
13 <meta name="viewport" content="width=device-width, initial-scale=1.0">
14 <title>PRACTICAL7</title>
15 </head>
16 <body>
17
      <div id="display"></div>
18
19
      <script>
20
        function calculateFactorialIterative(number) {
21
          let factorial = 1;
22
          for (let i = 1; i \le number; i++) {
23
             factorial *= i;
24
          }
25
          return factorial;
26
        }
27
28
        function calculateFactorialRecursive(number) {
29
          if (number \leq 1) {
30
             return 1;
31
          }
32
          return number * calculateFactorialRecursive(number - 1);
33
        }
34
35
        const userInput = prompt("Enter numbers separated by commas: ");
36
        const inputArray = userInput.split(',').map(Number);
37
38
        const factorialArrayIterative = inputArray.map(number => calculateFactorialIterative(number));
39
        const factorialArrayRecursive = inputArray.map(number => calculateFactorialRecursive(number));
40
41
        const display = document.getElementById("display");
42
        display.innerHTML += \ Inputed Array --> [\{\) [inputArray.join(', ')}] \);
43
        display.innerHTML += \ Factorial Array By Iterative Method --> [$ {factorial Array Iterative.join(', ')}] 
44
        display.innerHTML += `Factorial Array By Recursive Method --> [${factorialArrayRecursive.join(', ')}]
   `;
45
      </script>
46 </body>
47 </html>
48
49 <!-- *-*-*-*-END OF PRACTICAL 7-*-*-*-->
```