WEEK 04 ASSIGNMENT

Create an HTML page for the following: -

- a) Take an input from textbox and find whether it is even or odd, on button click.
- b) Take an input from textbox and find its factorial on button click.
- c) Take an input from textbox and print its multiplication table.

Extracts a number between 0 and 999 from a text field and displays it in words.

```
    assignment6.html >  html >  head >  style >  style >  output

      <!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Number Operations</title>
              body {
                  font-family: Arial, sans-serif;
                  padding: 20px;
                  background-color: ■rgb(175, 210, 210);
              input, button {
                  padding: 8px;
                  margin: 10px;
                  font-size: 16px;
                  background-color: bisque;
              .output {
                  margin-top: 20px;
                  font-weight: bold;
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              body{
                  background-color: ■darkcyan;
      <h1>Number Operations</h1>
          <label for="number">Enter a number (0 - 999): </label>
          <input type="number" id="number" min="0" max="999" />
      </div>
      <button onclick="checkEvenOdd()">Check Even or Odd</button>
      <div id="evenOddResult" class="output"></div>
      <button onclick="calculateFactorial()">Calculate Factorial
      <div id="factorialResult" class="output"></div>
```

```
◆ assignment6.html > ♦ html > ♦ head > ♦ style > ♦ .output
      <html lang="en">
      <button onclick="calculateFactorial()">Calculate Factorial
      <div id="factorialResult" class="output"></div>
      <button onclick="generateMultiplicationTable()">Generate Multiplication Table/button>
      <div id="multiplicationTableResult" class="output"></div>
      <button onclick="convertToWords()">Convert to Words</button>
      <div id="numberInWords" class="output"></div>
          function checkEvenOdd() {
              const num = parseInt(document.getElementById('number').value);
              const resultDiv = document.getElementById('evenOddResult');
              if (isNaN(num)) {
                  resultDiv.innerHTML = 'Please enter a valid number.';
                  return;
              if (num % 2 === 0) {
                  resultDiv.innerHTML = num + ' is Even';
               } else {
                  resultDiv.innerHTML = num + ' is Odd';
          function calculateFactorial() {
              const num = parseInt(document.getElementById('number').value);
              const resultDiv = document.getElementById('factorialResult');
              if (isNaN(num) || num < 0) {
                  resultDiv.innerHTML = 'Please enter a valid number greater than or equal to 0.';
                  return;
              let factorial = 1;
              for (let i = 1; i <= num; i++) {
                  factorial *= i;
```

```
◇ assignment6.html > ♦ html > ♦ head > ♦ style > ♦ .output
     <html lang="en">
     <script>
          function calculateFactorial() {
                 return;
             let factorial = 1;
             for (let i = 1; i <= num; i++) {
                 factorial *= i;
             resultDiv.innerHTML = 'Factorial of ' + num + ' is ' + factorial;
          function generateMultiplicationTable() {
             const num = parseInt(document.getElementById('number').value);
             const resultDiv = document.getElementById('multiplicationTableResult');
             if (isNaN(num)) {
                 resultDiv.innerHTML = 'Please enter a valid number.';
                  return;
             let table = '<h3>Multiplication Table of ' + num + '</h3>';
             for (let i = 1; i <= 10; i++) {
                 table += '' + num + ' x ' + i + ' = ' + (num * i) + '';
             table += '';
             resultDiv.innerHTML = table;
          function convertToWords() {
             const num = parseInt(document.getElementById('number').value);
             const resultDiv = document.getElementById('numberInWords');
             if (isNaN(num) || num < 0 || num > 999) {
                 resultDiv.innerHTML = 'Please enter a valid number between 0 and 999.';
                  return;
              resultDiv.innerHTML = numberToWords(num):
```

```
assignment6.html > ♦ html > ♦ head > ♦ style > ♦ .output
   <html lang="en">
   <script>
       function convertToWords() {
           resultDiv.innerHTML = numberToWords(num);
       function numberToWords(num) {
           const ones = ["", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine"];
           const teens = ["Ten", "Eleven", "Twelve", "Thirteen", "Fourteen", "Fifteen", "Sixteen", "Seventeen"
           const tens = ["", "", "Twenty", "Thirty", "Forty", "Fifty", "Sixty", "Seventy", "Eighty", "Ninety"
           if (num === 0) return "Zero";
           let words = "";
           if (num >= 100) {
               words += ones[Math.floor(num / 100)] + " Hundred ";
               num %= 100;
           if (num >= 20) {
               words += tens[Math.floor(num / 10)] + " ";
               num %= 10;
           if (num >= 10) {
               words += teens[num - 10] + " ";
            } else if (num > 0) {
               words += ones[num] + " ";
           return words.trim();
   </body>
```

Number Operations

Enter a number (0 - 999):

6

Check Even or Odd

6 is Even

Calculate Factorial

Factorial of 6 is 720

Generate Multiplication Table

Multiplication Table of 6

- 6 x 1 = 6
- 6 x 2 = 12
- $\cdot 6 \times 3 = 18$
- $\cdot 6 \times 4 = 24$
- $6 \times 5 = 30$
- $\cdot 6 \times 6 = 36$
- $6 \times 7 = 42$
- \cdot 6 x 8 = 48
- $6 \times 9 = 54$
- 6 x 10 = 60

Convert to Words