FACTORIAL:

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Factorial Calculator</title>
   <script>
      function calculateFactorial() {
         let number = document.getElementById('numberInput').value;
         number = parseInt(number);

         if (isNaN(number) || number < 0) {
            alert("Please enter a non-negative integer");
            return;
         }

         let factorial = 1;
         for (let i = 2; i <= number; i++) {
            factorial *= i;
         }

         document.getElementById('result').innerText = `Factorial of ${number} is ${factorial}`;
      }
   </script>
</head>
<body>
   <h1>Factorial Calculator</h1>
   <input type="number" id="numberInput" placeholder="Enter a number">
   <button onclick="calculateFactorial()">Calculate Factorial</button>
   <p id="result"></p>
</body>
</html>
```

FIBONACCI

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Fibonacci Calculator</title>
   <script>
      function calculateFibonacci() {
         let n = document.getElementById('numberInput').value;
         n = parseInt(n);

         if (isNaN(n) || n < 0) {
            alert("Please enter a non-negative integer");
```

```
        return;
      }

      let a = 0, b = 1, fib = 0;
      for (let i = 2; i <= n; i++) {
        fib = a + b;
        a = b;
        b = fib;
      }

      fib = n === 0 ? 0 : b;

      document.getElementById('result').innerText = `Fibonacci number at position ${n} is ${fib}`;
    }
  </script>
</head>
<body>
  <h1>Fibonacci Calculator</h1>
  <input type="number" id="numberInput" placeholder="Enter a number">
  <button onclick="calculateFibonacci()">Calculate Fibonacci</button>
  <p id="result"></p>
</body>
</html>
```

ODD-EVEN

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Odd or Even Checker</title>
  <script>
    function checkOddEven() {
      let number = document.getElementById('numberInput').value;
      number = parseInt(number);

      if (isNaN(number)) {
        alert("Please enter a valid integer");
        return;
      }

      let result = number % 2 === 0 ? "Even" : "Odd";

      document.getElementById('result').innerText = `The number ${number} is ${result}`;
    }
  </script>
</head>
<body>
```

```html
    <h1>Odd or Even Checker</h1>
    <input type="number" id="numberInput" placeholder="Enter a number">
    <button onclick="checkOddEven()">Check if Odd or Even</button>
    <p id="result"></p>
</body>
</html>
```

PRIME-NOTPRIME

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Prime Number Checker</title>
    <script>
        function isPrime(n) {
            if (n <= 1) return false;
            if (n <= 3) return true;

            if (n % 2 === 0 || n % 3 === 0) return false;

            for (let i = 5; i * i <= n; i += 6) {
                if (n % i === 0 || n % (i + 2) === 0) return false;
            }

            return true;
        }

        function checkPrime() {
            let number = document.getElementById('numberInput').value;
            number = parseInt(number);

            if (isNaN(number)) {
                alert("Please enter a valid integer");
                return;
            }

            let result = isPrime(number) ? "a prime" : "not a prime";

            document.getElementById('result').innerText = `The number ${number} is ${result} number.`;
        }
    </script>
</head>
<body>
    <h1>Prime Number Checker</h1>
    <input type="number" id="numberInput" placeholder="Enter a number">
    <button onclick="checkPrime()">Check if Prime</button>
    <p id="result"></p>
</body>
```

</html>

CALCULATOR

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Basic Arithmetic Operations</title>
    <script>
      function performOperation() {
          let number1 = parseFloat(document.getElementById('number1Input').value);
          let number2 = parseFloat(document.getElementById('number2Input').value);
          let operation = document.getElementById('operation').value;

          if (isNaN(number1) || isNaN(number2)) {
             alert("Please enter valid numbers");
             return;
          }

          let result;
          switch(operation) {
             case '+':
                result = number1 + number2;
                break;
             case '-':
                result = number1 - number2;
                break;
             case '*':
                result = number1 * number2;
                break;
             case '/':
                if (number2 === 0) {
                   alert("Division by zero is not allowed");
                   return;
                }
                result = number1 / number2;
                break;
             default:
                result = "Invalid operation";
          }

          document.getElementById('result').innerText = `Result: ${result}`;
      }
    </script>
</head>
<body>
    <h1>Basic Arithmetic Calculator</h1>
    <input type="number" id="number1Input" placeholder="Enter first number">
```

```html
    <input type="number" id="number2Input" placeholder="Enter second number">
    <select id="operation">
      <option value="+">Addition (+)</option>
      <option value="-">Subtraction (-)</option>
      <option value="*">Multiplication (*)</option>
      <option value="/">Division (/)</option>
    </select>
    <button onclick="performOperation()">Calculate</button>
    <p id="result"></p>
</body>
</html>
```

GREATEST

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Greatest Number Finder</title>
  <script>
    function findGreatest() {
      let numbers = document.getElementById('numbersInput').value.split(',').map(Number);

      if (numbers.some(isNaN)) {
        alert("Please enter valid numbers separated by commas");
        return;
      }

      let greatest = Math.max(...numbers);

      document.getElementById('result').innerText = `The greatest number is: ${greatest}`;
    }
  </script>
</head>
<body>
  <h1>Greatest Number Finder</h1>
  <input type="text" id="numbersInput" placeholder="Enter numbers separated by commas">
  <button onclick="findGreatest()">Find Greatest Number</button>
  <p id="result"></p>
</body>
</html>
```

CONFIRM-PROMPT-ALERT

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form Input Popups</title>
    <script>
      function showAlert() {
        let name = document.getElementById('nameInput').value;
        alert(`Hello, ${name}!`);
      }

      function showPrompt() {
        let age = document.getElementById('ageInput').value;
        let response = prompt(`Is your age ${age}?`, "Yes or No");
        alert(`You responded: ${response}`);
      }

      function showConfirm() {
        let city = document.getElementById('cityInput').value;
        let confirmResponse = confirm(`Are you from ${city}?`);
        alert(`Your confirmation: ${confirmResponse ? 'Yes' : 'No'}`);
      }
    </script>
</head>
<body>
    <h1>Form with Popups</h1>
    <form onsubmit="event.preventDefault();">
      <div>
        <label for="nameInput">Name:</label>
        <input type="text" id="nameInput" name="name">
      </div>
      <div>
        <label for="ageInput">Age:</label>
        <input type="number" id="ageInput" name="age">
      </div>
      <div>
        <label for="cityInput">City:</label>
        <input type="text" id="cityInput" name="city">
      </div>
      <button type="button" onclick="showAlert()">Show Alert</button>
      <button type="button" onclick="showPrompt()">Show Prompt</button>
      <button type="button" onclick="showConfirm()">Show Confirm</button>
    </form>
</body>
</html>
```