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Roll N0 : 266 Practical : 06

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Prime Numbers Between Range</title>

    <style>

        body {

            font-family: *Arial*, *sans-serif*;

            padding: 20px;

        }

        input, button {

            padding: 10px;

            margin: 10px;

            font-size: 16px;

        }

        p {

            font-size: 18px;

            color: #333;

        }

    </style>

</head>

<body>

    <h2>Find Prime Numbers Between a Range</h2>

    <label for="startNumber">Starting Number:</label>

    <input type="number" id="startNumber" placeholder="Enter starting number"><br>

    <label for="endNumber">Ending Number:</label>

    <input type="number" id="endNumber" placeholder="Enter ending number"><br>

    <button onclick="findPrimes()">Find Prime Numbers</button>

    <h3>Prime Numbers Between Range:</h3>

    <p id="primeNumbersOutput"></p>

    <script>

        function isPrime(num) {

            if (num <= 1) return false;

            for (let i = 2; i <= Math.sqrt(num); i++) {

                if (num % i === 0) return false;

            }

            return true;

        }

*// Function to find all prime numbers in the given range*

        function findPrimes() {

            var start = parseInt(document.getElementById("startNumber").value);

            var end = parseInt(document.getElementById("endNumber").value);

            if (isNaN(start) || isNaN(end) || start > end) {

                document.getElementById("primeNumbersOutput").textContent = "Please enter valid numbers where the starting number is less than the ending number.";

                return;

            }

            var primes = [];

            for (let num = start; num <= end; num++) {

                if (isPrime(num)) {

                    primes.push(num);

                }

            }

            if (primes.length > 0) {

                document.getElementById("primeNumbersOutput").textContent = "Prime Numbers: " + primes.join(", ");

            } else {

                document.getElementById("primeNumbersOutput").textContent = "No prime numbers found in the given range.";

            }

        }

    </script>

</body>

</html>

