<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Prime Number Finder</title>

<style>

body {

font-family: Arial, sans-serif;

padding: 20px;

background-color: #f0f2f5;

}

h1 {

color: #333;

}

.container {

max-width: 500px;

margin: auto;

padding: 20px;

background: #fff;

border-radius: 8px;

box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);

}

input[type="number"] {

padding: 10px;

width: calc(50% - 12px);

margin: 5px 5px 20px 0;

border: 1px solid #ccc;

border-radius: 4px;

}

button {

padding: 10px 20px;

background-color: #007bff;

color: white;

border: none;

border-radius: 4px;

cursor: pointer;

}

button:hover {

background-color: #0056b3;

}

.result {

margin-top: 20px;

padding: 15px;

background-color: #e9ecef;

border-radius: 5px;

}

.result span {

display: inline-block;

margin: 2px 5px;

padding: 5px 10px;

background-color: #17a2b8;

color: white;

border-radius: 4px;

}

</style>

</head>

<body>

<div class="container">

<h1>Prime Number Finder</h1>

<label for="start">Start Number:</label><br />

<input type="number" id="start" min="0" /><br />

<label for="end">End Number:</label><br />

<input type="number" id="end" min="0" /><br />

<button onclick="findPrimes()">Find Primes</button>

<div id="result" class="result"></div>

</div>

<script>

function isPrime(num) {

if (num < 2) return false;

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

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

}

return true;

}

function findPrimes() {

const start = parseInt(document.getElementById('start').value);

const end = parseInt(document.getElementById('end').value);

const resultDiv = document.getElementById('result');

resultDiv.innerHTML = '';

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

resultDiv.innerHTML = '<p>Please enter a valid range.</p>';

return;

}

let primes = [];

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

if (isPrime(i)) {

primes.push(i);

}

}

if (primes.length === 0) {

resultDiv.innerHTML = '<p>No prime numbers found in this range.</p>';

} else {

resultDiv.innerHTML = '<p>Prime numbers:</p>' +

primes.map(p => `<span>${p}</span>`).join('');

}

}

</script>

</body>

</html>

OUTPUT:

