<!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;

text-align: center;

margin: 20px;

}

input {

margin: 5px;

padding: 8px;

width: 100px;

}

button {

padding: 8px;

cursor: pointer;

}

#result {

margin-top: 20px;

font-weight: bold;

}

</style>

</head>

<body>

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

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

<input type="number" id="start" placeholder="Enter start number">

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

<input type="number" id="end" placeholder="Enter end number">

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

<div id="result"></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() {

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

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

let primes = [];

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

document.getElementById('result').innerHTML = "Please enter valid numbers with start < end.";

return;

}

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

if (isPrime(i)) {

primes.push(i);

}

}

document.getElementById('result').innerHTML = primes.length

? "Prime Numbers: " + primes.join(", ")

: "No prime numbers found in this range.";

}

</script>

</body>

</html>

OUTPUT:

