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Experiment no6:Input starting and ending numbers and find prime numbers between them us js

Output: **Index.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 Finder</title>

<style> body { font-family: Arial, sans-serif; background-color: #1a1a2e; padding: 20px; color: #ffffff;

}

.container { background-color: #16213e; padding: 20px; border-radius: 10px; box-shadow: 0 4px 15px rgba(0, 255, 255, 0.2); max-width: 400px; margin: auto;

} input { width: 100%; padding: 10px; margin: 10px 0; border: 1px solid #0f3460; border-radius: 5px; background-color: #0f3460; color: #ffffff;

}

input::placeholder { color: #cccccc;

} button { padding: 10px; border: none; border-radius: 5px; background-color: #00adb5; color: white; cursor: pointer; width: 100%; font-weight: bold;

} button:hover { background-color: #02cfd1;

} .result { margin-top: 20px; font-weight: bold; color: #00ffcc;

} h1 { text-align: center; color: #f0f0f0;

}

</style>

</head>

<body>

<div class="container">

<h1>Prime Number Finder</h1>

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

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

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

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

</div>

<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 findPrimes() { const start = parseInt(document.getElementById('startNumber').value); const end = parseInt(document.getElementById('endNumber').value); let primes = [];

for (let i = start; i <= end; i++) { if (isPrime(i)) { primes.push(i);

}

}

document.getElementById('primeResult').innerText = primes.length > 0

? `Prime numbers: ${primes.join(', ')}`

: "No prime numbers found in the range."; }

</script>

</body>

</html>

Output:

