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| **SVKM's-IOT, Dhule**Shri Vile Parle Kelavani Mandal's  **INSTITUTE OF TECHNOLOGY**  **DHULE (M.S.)**  **DEPARMENT OF COMPUTER ENGINEERING** | | | |
| **Subject :**Web Technology Lab | | | Remark |
| **Name :**  Piyusha Kalyan Patil | | **Roll No. :** 23 |
| **Class :** SY.COMP | **Batch :** S2 | **Division:** B |
| **Expt. No. :**06 | **Date : 16/04/2025** | | Signature |
| **Title :** Develop and demonstrate a HTML file that includes JavaScript for the following problems:  Input: A starting and ending number  b. Output: find all the prime numbers between starting and ending number. | | |
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**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<style>

body {

font-family: Arial, sans-serif;

margin: 40px;

}

input, button {

margin: 5px 0;

padding: 8px;

font-size: 16px;

}

.output {

margin-top: 10px;

font-weight: bold;

}

</style>

</head>

<body>

<h2>Find Prime Numbers Between Two Numbers</h2>

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

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

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

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

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

<div id="primeOutput" class="output"></div>

<script>

// Check if a number is prime

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;

}

// Find and display prime numbers in the given range

function findPrimes() {

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

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

const outputDiv = document.getElementById('primeOutput');

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

outputDiv.textContent = "Please enter valid numbers for both fields.";

return;

}

if (start > end) {

outputDiv.textContent = "Start number should be less than or equal to end number.";

return;

}

const primes = [];

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

if (isPrime(i)) primes.push(i);

}

outputDiv.textContent = primes.length > 0

? `Prime numbers between ${start} and ${end}: ${primes.join(', ')}`

: `No prime numbers found between ${start} and ${end}.`;

}

</script>

</body>

</html>

**Output:**

