	Remark
Subject : web technology Lab **Name :** Pavan Bhika Patil **Roll No. :** 55 **Class : SY Comp** **Batch : S4** **Division: B** **Expt. No. :**06 **Date : 07/04/2025** **Title :** develope and demonstrate html file that includes javascript fotr finfing prime number in given range.	
	Signature

Code :

```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: #f4f4f9;

   display: flex;

   justify-content: center;

   align-items: center;

   height: 100vh;

   margin: 0;

  }
```

```css
.container {
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  width: 300px;
  text-align: center;
}

h1 {
  font-size: 24px;
  color: #333;
}

input {
  padding: 10px;
  margin: 10px;
  width: 80%;
  font-size: 16px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

button {
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
```

```css
      border-radius: 4px;

      cursor: pointer;

      font-size: 16px;

    }


    button:hover {

      background-color: #45a049;

    }


    .result {

      margin-top: 20px;

      font-size: 18px;

      color: #333;

    }


    .result span {

      color: green;

    }
  </style>
</head>
<body>

  <div class="container">
    <h1>Find Prime Numbers</h1>
    <label for="start">Start Range:</label>
    <input type="number" id="start" placeholder="Enter start range" required>
    <label for="end">End Range:</label>
    <input type="number" id="end" placeholder="Enter end range" required>
    <button onclick="findPrimeNumbers()">Find Primes</button>
```

```html
    <div class="result" id="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 findPrimeNumbers() {
      let start = document.getElementById("start").value;
      let end = document.getElementById("end").value;
      let resultDiv = document.getElementById("result");

      // Validate the input
      if (start === "" || end === "" || parseInt(start) < 0 || parseInt(end) < 0 || parseInt(start) >
parseInt(end)) {
        resultDiv.innerHTML = "<span style='color:red;'>Please enter valid start and end range
values.</span>";
        return;
      }

      let primes = [];
```

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

      if (isPrime(i)) {

        primes.push(i);

      }

    }


    // Display result

    if (primes.length > 0) {

      resultDiv.innerHTML = "Prime numbers in the range: <span>" + primes.join(", ") + "</span>";

    } else {

      resultDiv.innerHTML = "No prime numbers found in the given range.";

    }

   }

  </script>


</body>

</html>
```

Find Prime Numbers

Start Range:

1

End Range:

9

Find Primes

Prime numbers in the range: 2, 3, 5, 7