

******(Exp VI)*****

#Aim:- Design a webpage that prompts user to input a starting and ending numbers and display prime No. Specified range.

Theory:

- First take the number N as input.
- Then use a for loop to iterate the numbers from 2 to N.
- Then checks for each number to be prime No..
If it is prime then print it.

Ex:-

Input: N=10

Output: 2,3,5,7 ✓

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```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Prime Numbers</title>
<style>
  body {
    font-family: Arial, sans-serif;
    background: #e6f3ff;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    height: 100vh;
    margin: 0;
  }
  .container {
    background: #fff;
    padding: 5rem 6rem;
    border-radius: 10px;
    box-shadow: 0 2px 8px rgba(0,0,0,0.1);
    text-align: center;
  }
  input[type="text"] {
    padding: 0.5rem;
    width: 250px;
    font-size: 1rem;
    border: 1px solid #ccc;
    border-radius: 5px;
    margin-bottom: 1rem;
  }
  button {
    padding: 0.5rem 1.5rem;
    font-size: 1rem;
    background: #28a745;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    margin-bottom: 1rem;
  }
  button:hover {
    background: #218838;
  }
  .result {
    font-size: 1.2rem;
  }
</style>
```



```
        color: #333;
        margin-top: 1rem;
    }

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</style>
</head>
<body>
    <div class="container">
        <h2>Prime Numbers</h2>
        <input type="text" id="startNumber" placeholder="Enter starting number">
        <br>
        <input type="text" id="endNumber" placeholder="Enter ending number">
        <br>
        <button onclick="displayPrimes()">Display Primes</button>
        <div class="result" id="result"></div>
    </div>
    <script>
        function isPrime(num) {
            if (num <= 1) return false;
            for (let i = 2; i < num; i++) {
                if (num % i === 0) return false;
            }
            return true;
        }

        function displayPrimes() {
            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('result').textContent = 'Prime numbers: ${primes.join(',')}';
        };
    </script>
</body>
</html>
```

Prime Numbers

Enter starting number

Enter ending number

Display Primes

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Date :

conclusion:

We are creating a webpage for printing prime numbers in a given range using HTML, CSS and Java Script.

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