## **Copilot**

Creating a prime number series using HTML and JavaScript involves writing a script to identify and display prime numbers. Here's a simple example to get you started:

## **HTML Code**

First, create the HTML structure:

## **JavaScript Code**

Next, add the JavaScript code to find and display prime numbers:

```
function isPrime(num) {
    if (num <= 1) return false;</pre>
    for (let i = 2; i <= Math.sqrt(num); i++) {</pre>
        if (num % i === 0) return false;
    }
    return true;
}
function generatePrimes() {
    const limit = document.getElementById('limit').value;
    const resultDiv = document.getElementById('result');
    resultDiv.innerHTML = '';
    for (let i = 2; i <= limit; i++) {</pre>
        if (isPrime(i)) {
            resultDiv.innerHTML += i + ' ';
    }
}
```

## **Explanation**

- HTML: The form includes an input field for the user to enter a number and a button to trigger the prime number generation.
- JavaScript:
  - The isPrime function checks if a number is prime by testing divisibility up to the square root of the number.
  - The generatePrimes function retrieves the user input, checks each number up to the limit, and displays the prime numbers in the result div.

This example will generate and display all prime numbers up to the number entered by the user. Would you like to see more advanced features or have any specific requirements for this script?