

```
<!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: caveat, cursive;

      background: #f4f4f4;

      padding: 40px;

      text-align: rightside;

    }


    .container {

      background: rgb(128, 187, 154);

      padding: 30px;

      max-width: 400px;

      margin: auto;

      border-radius: 8px;

      box-shadow: 0 0 10px rgba(113, 27, 27, 0.1);

    }


    input[type="number"] {

      padding: 10px;

      width: 80%;

      margin: 10px 0;
```

```
}
```

```
button {  
    padding: 10px 20px;  
    margin-top: 10px;  
    background-color: rgb(110, 33, 33);  
    color: white;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
}
```

```
button:hover {  
    background-color: #218838;  
}
```

```
.result {  
    margin-top: 20px;  
    font-weight: bold;  
    color: #333;  
}
```

```
.error {  
    color: rgb(7, 64, 80);  
    font-size: 14px;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h2>Prime Number Finder</h2>
```

```
<p>Enter a starting and ending number:</p>
```

```
<input type="number" id="start" placeholder="Start number">
```

```
<input type="number" id="end" placeholder="End number">
```

```
<br>
```

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

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

```
<div class="error" id="error"></div>
```

```
</div>
```

```
<script>
```

```
function isPrime(num) {
```

```
  if (num <= 1) return false;
```

```
  if (num === 2) return true;
```

```
  if (num % 2 === 0) return false;
```

```
  for (let i = 3; i <= Math.sqrt(num); i += 2) {
```

```
    if (num % i === 0) return false;
```

```
  }
```

```
  return true;
```

```
}
```

```
function findPrimes() {
```

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

```
const end = parseInt(document.getElementById('end').value);
const resultDiv = document.getElementById('result');
const errorDiv = document.getElementById('error');
resultDiv.innerHTML = "";
errorDiv.innerHTML = "";

if (isNaN(start) || isNaN(end)) {
    errorDiv.textContent = 'Please enter valid numbers.';
    return;
}

if (start > end) {
    errorDiv.textContent = 'Start number must be less than or equal to end number.';
    return;
}

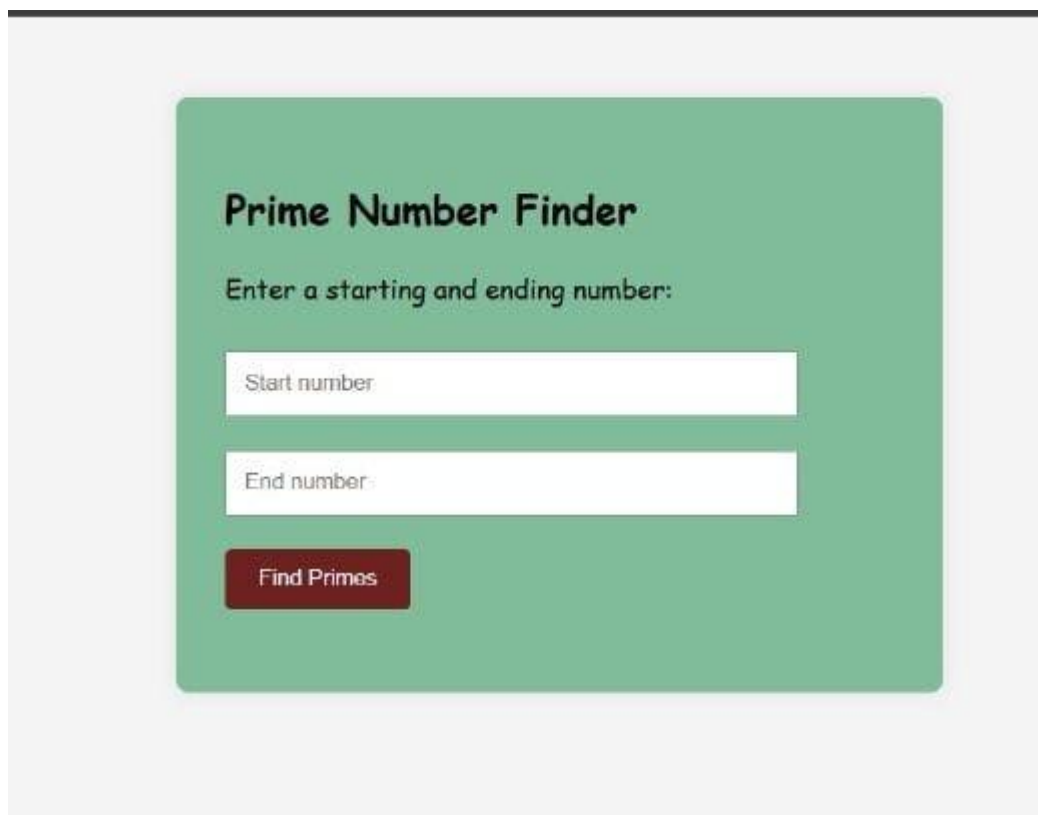
const primes = [];
for (let i = start; i <= end; i++) {
    if (isPrime(i)) {
        primes.push(i);
    }
}

resultDiv.textContent = primes.length
    ? `Prime numbers: ${primes.join(', ')}`
    : 'No prime numbers found in this range.';
}
</script>
```

```
</body>
```

```
</html>
```

Output:



The image shows a web form titled "Prime Number Finder" on a light green background. Below the title is the instruction "Enter a starting and ending number:". There are two white input fields with light green borders. The first field is labeled "Start number" and the second is labeled "End number". Below these fields is a dark red button with the text "Find Primes" in white.

Prime Number Finder

Enter a starting and ending number:

Start number

End number

Find Primes