

HTML CODE:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Ayush_Rawat MCA-B 26</title>
  </head>
  <body>
    <p>All primes between 2 and 250 are: </p>
    <div id="output"></div>
    <script>
      primes = []

      for (let i = 2; i <= 250; i++) {
        let isPrime = true;
        for (let j = 2; j <= Math.sqrt(i); j++) {
          if (i % j === 0) {
            isPrime = false;
            break;
          }
        }
        if (isPrime) {
          primes.push(i);
        }
      }

      document.getElementById("output").innerHTML = primes.join(", ");
    </script>
  </body>
</html>
```

OUTPUT:

All primes between 2 and 250 are:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241

HTML CODE:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Ayush_Rawat MCA-B 26</title>
  </head>
  <body>
    <p id='words'></p>
    <p id='characters'></p>
    <p id='vowels'></p>
    <p id='consonants'></p>
    <script>
      const inputString = prompt("Enter a string:");

      let numWords = 0;
      let numChars = 0;
      let numVowels = 0;
      let numConsonants = 0;

      if (inputString) {
        numWords = 1;
        for (let i = 0; i < inputString.length; i++) {
          let ch = inputString[i].toLowerCase();

          if (ch === ' ') {
            numWords++;
          }
          if (ch === 'a' || ch === 'e' || ch === 'i' || ch === 'o' || ch === 'u') {
            numVowels++;
          } else if (ch >= 'a' && ch <= 'z') {
            numConsonants++;
          }

          numChars++;
        }
      }

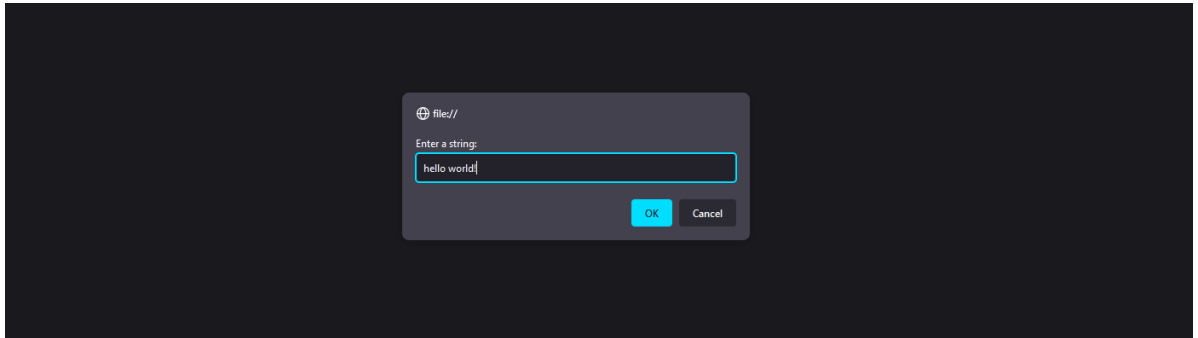
      let words = `Number of words: ${numWords}`;
      let characters = `Number of characters: ${numChars}`;
      let vowels = `Number of vowels: ${numVowels}`;
      let consonants = `Number of consonants: ${numConsonants}`;

      document.getElementById('words').innerHTML = words;
      document.getElementById('characters').innerHTML = characters;

      document.getElementById('vowels').innerHTML = vowels;
```

```
        document.getElementById('consonants').innerHTML = consonants;
    </script>
</body>
</html>
```

OUTPUT:

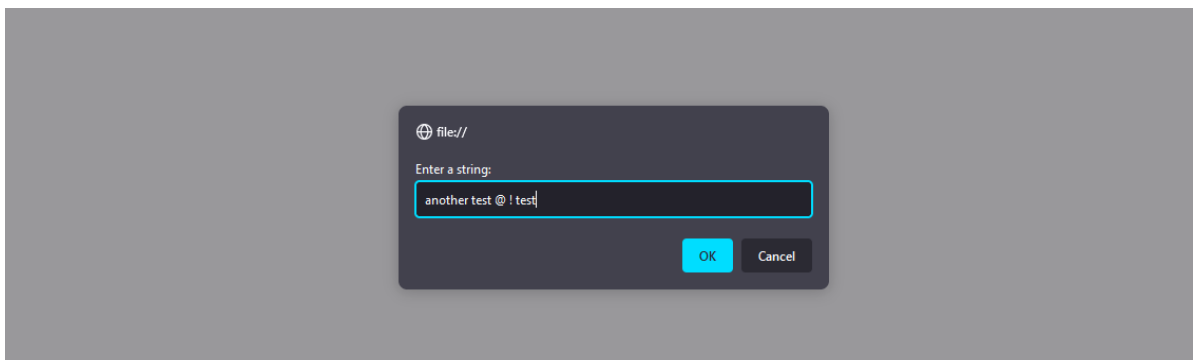


Number of words: 2

Number of characters: 12

Number of vowels: 3

Number of consonants: 7



Number of words: 5

Number of characters: 21

Number of vowels: 5

Number of consonants: 10

HTML CODE:

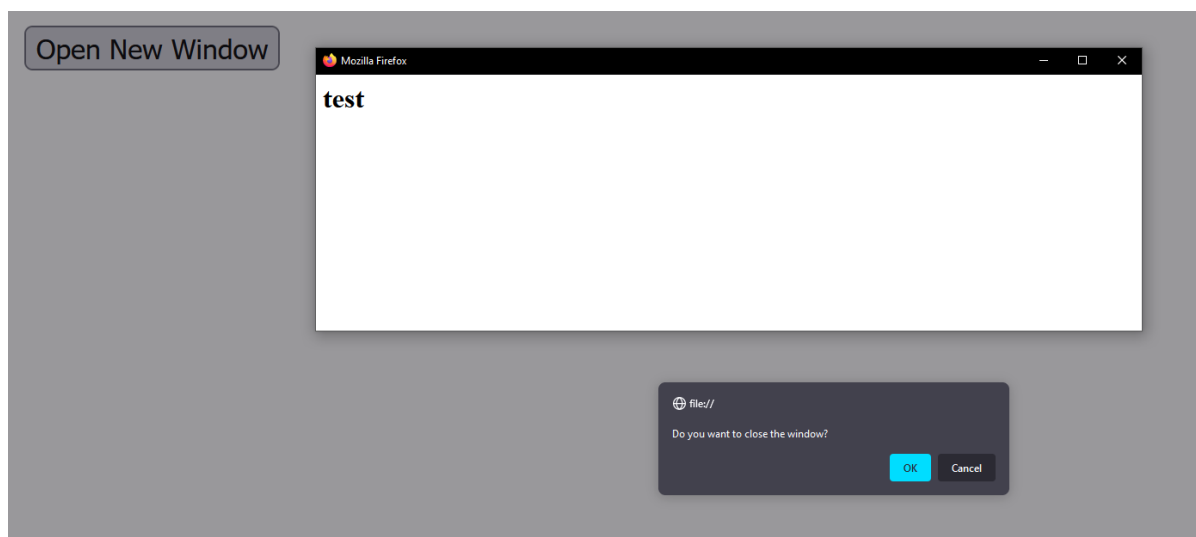
```
<!DOCTYPE html>
<html>
<head>
  <title>Ayush_Rawat MCA-B 26</title>
</head>
<body>
  <button onclick="openWindow()">Open New Window</button>
  <script>
    function openWindow() {
      let newWindow = window.open("", "Test", "height=400,width=400");

      newWindow.document.write('<h1>test</h1>');

      let closeWindow = confirm("Do you want to close the window?");

      if (closeWindow) {
        newWindow.close();
      }
    }
  </script>
</body>
</html>
```

OUTPUT:



HTML:

```
<!DOCTYPE html>
<html>
<head>
  <title>Ayush_Rawat MCA-B 26</title>

  <style>
    .highlight {
      color: red;
      background-color: yellow;
      font-size: 24px;
    }

    #output {
      border: solid black 5px;
      padding: 30px;
    }
  </style>
</head>
<body>
  <form id="inputForm">
    <label for="inputText">Enter some text:</label><br>
    <textarea name="" id="inputText" cols="30" rows="10"></textarea><br>
    <input type="submit" value="Submit">
  </form>

  <p>
    The following is the text entered in the textbox above but font is colored red and
    background color is yellow. :)
    <br>
    <div id="output" style='white-space:pre'></div>
  </p>

  <script>
    document.getElementById('inputForm').addEventListener('submit', function(event)
    {
      event.preventDefault();

      var input = document.getElementById('inputText').value;
      var output = '<span class="highlight">' + input + '</span>';

      document.getElementById('output').innerHTML = output;
    });
  </script>
</body>
</html>
```

OUTPUT:

Enter some text:

just a test

Submit

The following is the text entered in the textbox above but font is colored red and background color is yellow. :)

just a test

HTML:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Ayush_Rawat MCA-B 26</title>
```

```
</head>
```

```
<body>
```

```
  <form id="registrationForm">
```

```
    <label for="name">Name:</label><br>
```

```
    <input type="text" id="name" name="name"><br>
```

```
    <span id="nameError" style="color:red"></span><br>
```

```
    <label for="age">Age:</label><br>
```

```
    <input type="text" id="age" name="age"><br>
```

```
    <span id="ageError" style="color:red"></span><br>
```

```
    <input type="submit" value="Submit">
```

```
  </form>
```

```
  <script>
```

```
    document.getElementById('registrationForm').addEventListener('submit', function  
(event) {  
      event.preventDefault();
```

```
      var name = document.getElementById('name').value;
```

```
      var age = document.getElementById('age').value;
```

```
      var isValid = true;
```

```
      if (!name || !age) {
```

```
        isValid = false;
```

```
        alert('All fields are required');
```

```
      }
```

```
      if (isNaN(age) || age < 18) {
```

```
        isValid = false;
```

```
        document.getElementById('ageError').innerHTML = 'Age must be a number  
greater than 18';
```

```
      } else {
```

```
        document.getElementById('ageError').innerHTML = "";
```

```
      }
```

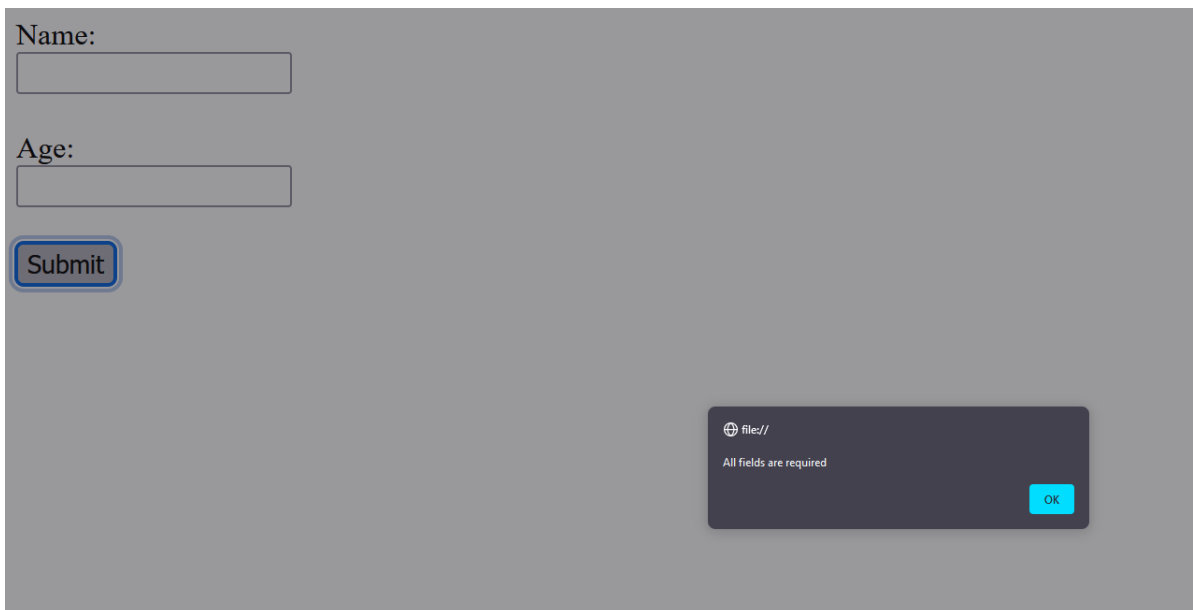
```

        if (/^[a-zA-Z]/.test(name)) {
            isValid = false;
            document.getElementById('nameError').innerHTML = 'Name must contain
only letters';
        } else {
            document.getElementById('nameError').innerHTML = "";
        }

        if (isValid) {
            this.submit();
        }
    });
</script>
</body>
</html>

```

OUTPUT:



The screenshot shows a web form on a gray background. It has two input fields: 'Name:' and 'Age:'. The 'Name' field is empty, and the 'Age' field is also empty. Below the 'Name' field is a blue 'Submit' button. In the bottom right corner, there is a dark gray modal box with a white border. It contains a small icon of a globe with a plus sign, the text 'file://', and the message 'All fields are required'. There is a red 'OK' button in the bottom right corner of the modal box.

Name:

Name must contain only letters

Age:

Age must be a number greater than 18