Experiment 2.1

Aim

To create a live character counter for a textarea using HTML, CSS, and JavaScript that updates in real-time as the user types.

Tools Used

1. HTML
2. CSS
3. JavaScript
4. Web Browser

Procedure

1. Create an HTML file and add a textarea for the user to type text.
2. Add a paragraph element below the textarea to display the character count.
3. Use CSS to style the textarea and counter for better appearance.
4. Write JavaScript code to capture the 'input' event on the textarea.
5. Update the character count dynamically as the user types or deletes characters.
6. Test the functionality in a web browser.

Code

```
<!DOCTYPE html>
<html>
<head>
<title>Live Character Counter</title>
<style>
textarea {
    width: 100%;
    height: 100px;
    font-size: 16px;
}
</style>
</head>
<body>
<h2>Live Character Counter</h2>
<textarea id="textArea" placeholder="Start typing..."></textarea>
<p><b>Characters:</b> <span id="charCount">0</span></p>

<script>
    const textArea = document.getElementById('textArea');
    const charCount = document.getElementById('charCount');
```

```
    textArea.addEventListener('input', () =>
      { charCount.textContent = textArea.value.length;
    });
</script>
</body>
</html>
```

Result

The web page successfully displays the number of characters entered in the textarea in real-time.

Expected Outcome

Below are the screenshots of the expected output:

Live Character Counter

HELLO MITAKSHU

Characters: 14

Live Character Counter

Start typing...

Characters: 0