

EXPERIMENT 2.1

AIM:

Live Character Counter for Textarea html code

CODE:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <title>Live Character Counter</title>

  <meta name="viewport" content="width=device-width, initial-scale=1" />

  <style>

    body { font-family: system-ui, Arial, sans-serif; margin: 2rem; }

    label { font-weight: 600; display: block; margin-bottom: .5rem; }

    .field { max-width: 520px; }

    textarea {

      width: 100%; min-height: 140px; padding: .75rem; box-sizing: border-box;

      border: 1px solid #ccc; border-radius: 6px; resize: vertical; font: inherit;

    }

    .counter {

      display: flex; justify-content: space-between; align-items: center;

      font-size: .9rem; margin-top: .5rem;

    }

    .muted { opacity: .75; }

    .warning { color: #d17c00; }

    .error { color: #c40000; }

  </style>

</head>

<body>

  <div class="field">
```

```
<label for="message">Your message</label>
```

```
<textarea id="message" placeholder="Type here..."></textarea>
```

```
<div class="counter" aria-live="polite" aria-atomic="true">
```

```
  <span id="used" class="muted">0/200</span>
```

```
  <span id="remaining" class="muted">200 characters remaining</span>
```

```
</div>
```

```
</div>
```

```
<script>
```

```
(function () {
```

```
  const MAX = 200; // change the limit if needed
```

```
  const ta = document.getElementById('message');
```

```
  const usedEl = document.getElementById('used');
```

```
  const remEl = document.getElementById('remaining');
```

```
  function update() {
```

```
    let v = ta.value;
```

```
    // Prevent typing beyond limit
```

```
    if (v.length > MAX) {
```

```
      v = v.slice(0, MAX);
```

```
      ta.value = v;
```

```
    }
```

```
    const len = v.length;
```

```
    const remaining = MAX - len;
```

```
    usedEl.textContent = `${len}/${MAX}`;
```

```
    remEl.textContent = `${remaining} character${remaining === 1 ? '' : 's'} remaining`;
```

```
    // visual states
```

```
    usedEl.className = 'muted';
```

```

    remEl.className = 'muted';

    if (len >= Math.floor(MAX * 0.9) && len < MAX) {
        usedEl.classList.add('warning');
        remEl.classList.add('warning');
    } else if (len >= MAX) {
        usedEl.classList.remove('warning');
        remEl.classList.remove('warning');
        usedEl.classList.add('error');
        remEl.classList.add('error');
    }
}

// Initialize and update on input
update();
ta.addEventListener('input', update);
// Optional: count pasted text immediately on focus out/in
ta.addEventListener('blur', update);
ta.addEventListener('focus', update);
})();
</script>
</body>
</html>

```

OUTPUT:

Your message

You and I are not very different from this flower. Just like this flower is unique, you are unique. All of us have something special that makes us as beautiful.

161/200

39 characters remaining