Example 1:
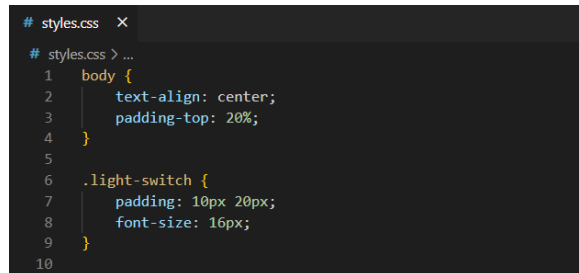
In the initial phase of development, the web application's structure was outlined using HTML. The basic layout, as demonstrated in Snippet A.1 (see Appendix A), provided the foundation upon which the application was built. This structure was essential for the subsequent incorporation of CSS and JavaScript elements.

Example 2:


```
# styles.css    ×

# styles.css > ...
  1    body {
  2        text-align: center;
  3        padding-top: 20%;
  4    }
  5
  6    .light-switch {
  7        padding: 10px 20px;
  8        font-size: 16px;
  9    }
 10
```

Figure 1: CSS Code for Light Switch Web Application

The visual aspect of the web application was addressed using CSS. As shown in Figure 1 (see Appendix A, Snippet A.2), the styling choices were geared towards creating a user-friendly interface with a focus on readability and aesthetic appeal.

Notes:

- Each code snippet in the appendix is given a unique identifier (e.g., Snippet A.1, Snippet A.2).
- In the main body of the report, when referring to a specific piece of code, you should mention the snippet identifier and note that it can be found in the appendix.
- This approach keeps the report organised and allows me to easily locate the referenced code in the appendix.
- Including **both** inline references and the appendix ensures that the report is both comprehensive and neatly formatted.

Appendix

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Light Switch</title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>
<body>
    <button class="light-switch" onclick="toggleLight()">Toggle Light</button>
    <script src="{{ url_for('static', filename='script.js') }}"></script>
</body>
</html>
```

Snippet A.2: CSS Styling for the Web Application

```css
body {
    text-align: center;
    padding-top: 20%;
}


.light-switch {
    padding: 10px 20px;
    font-size: 16px;
}
```

Snippet A.3: JavaScript Function Toggling Background Colour

```javascript
var isLightOn = true;


function toggleLight() {
    document.body.style.backgroundColor = isLightOn ? 'black' : 'white';
    isLightOn = !isLightOn;
}
```

Snippet B.1: Flask Application Setup

```python
from flask import Flask, render_template


app = Flask(__name__)


@app.route('/')
def home():
    return render_template('index.html')


if __name__ == '__main__':
    app.run(debug=True)
```