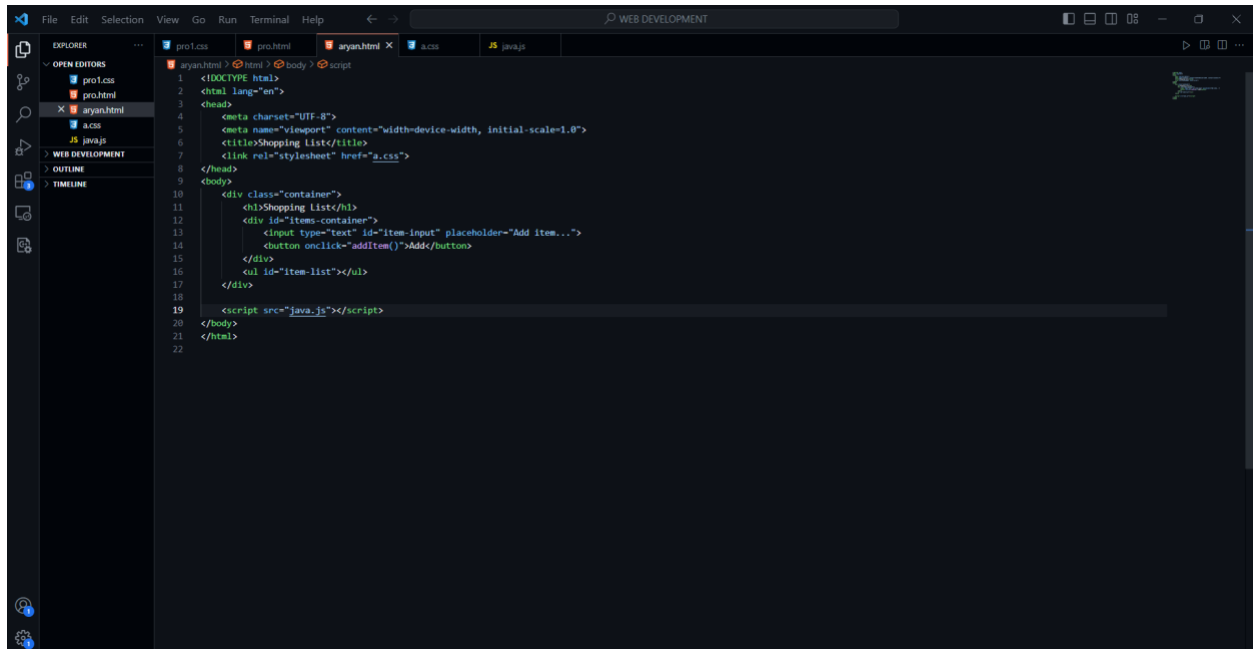
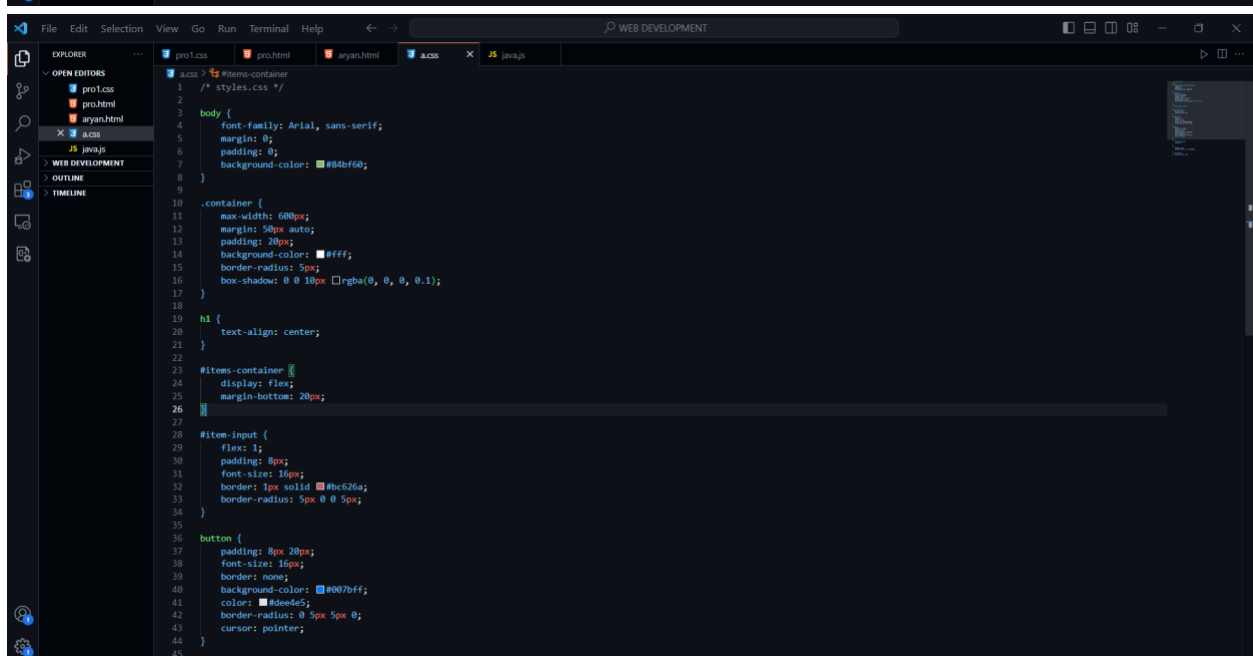


T1. Develop a single page application for Shopping List.
First develop a simple prototype
using html and javascript. Gradually develop a MVC based
prototype.



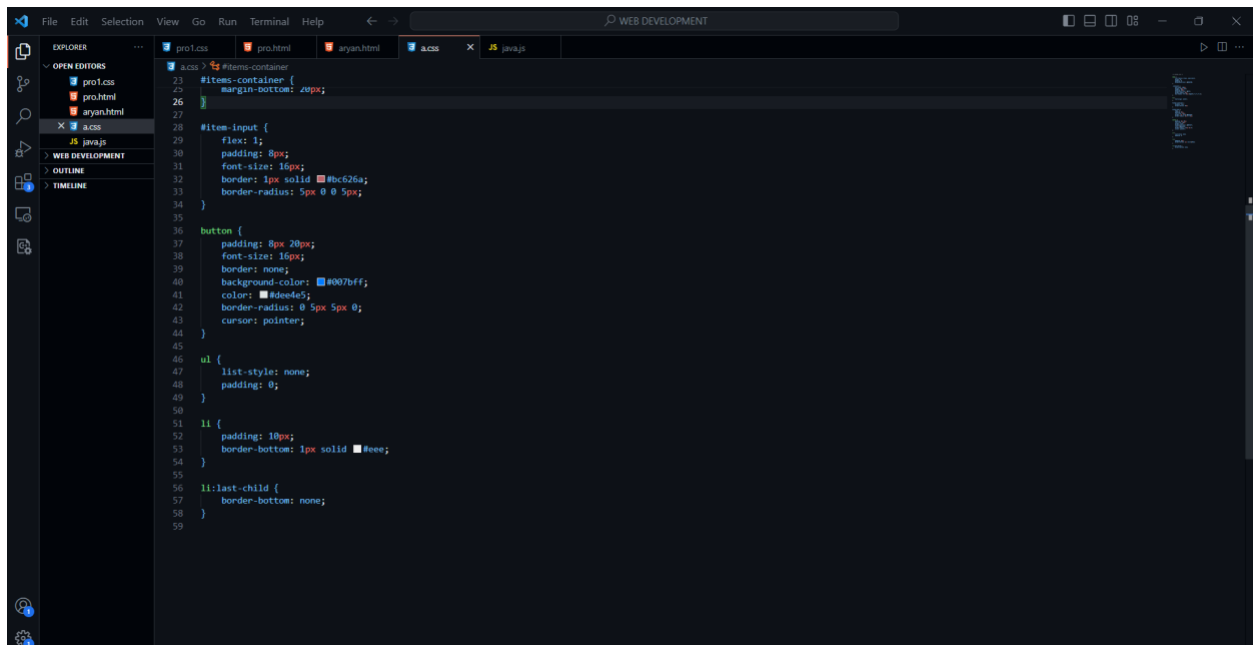
The screenshot shows the Visual Studio Code editor with the 'aryan.html' file open. The code defines the HTML structure for a shopping list application. It includes a meta viewport for mobile responsiveness, a title 'Shopping list', and a link to 'a.css'. The main content is enclosed in a 'container' div, which contains a heading 'Shopping List', a form with an input field and an 'Add' button, and an unordered list with the id 'item-list'. A script tag at the bottom references 'java.js'.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Shopping list</title>
7   <link rel="stylesheet" href="a.css">
8 </head>
9 <body>
10  <div class="container">
11    <h1>Shopping List</h1>
12    <div id="items-container">
13      <input type="text" id="item-input" placeholder="Add item...">
14      <button onclick="addItem()">Add</button>
15    </div>
16    <ul id="item-list"></ul>
17  </div>
18
19  <script src="java.js"></script>
20 </body>
21 </html>
22
```



The screenshot shows the Visual Studio Code editor with the 'a.css' file open. The code defines the CSS styles for the shopping list application. It includes a 'body' style with a serif font, a 'container' style with a max-width of 600px and a box-shadow, an 'h1' style with center text alignment, an 'items-container' style with flex display, an 'item-input' style with flex 1 and a border, and a 'button' style with a pointer cursor.

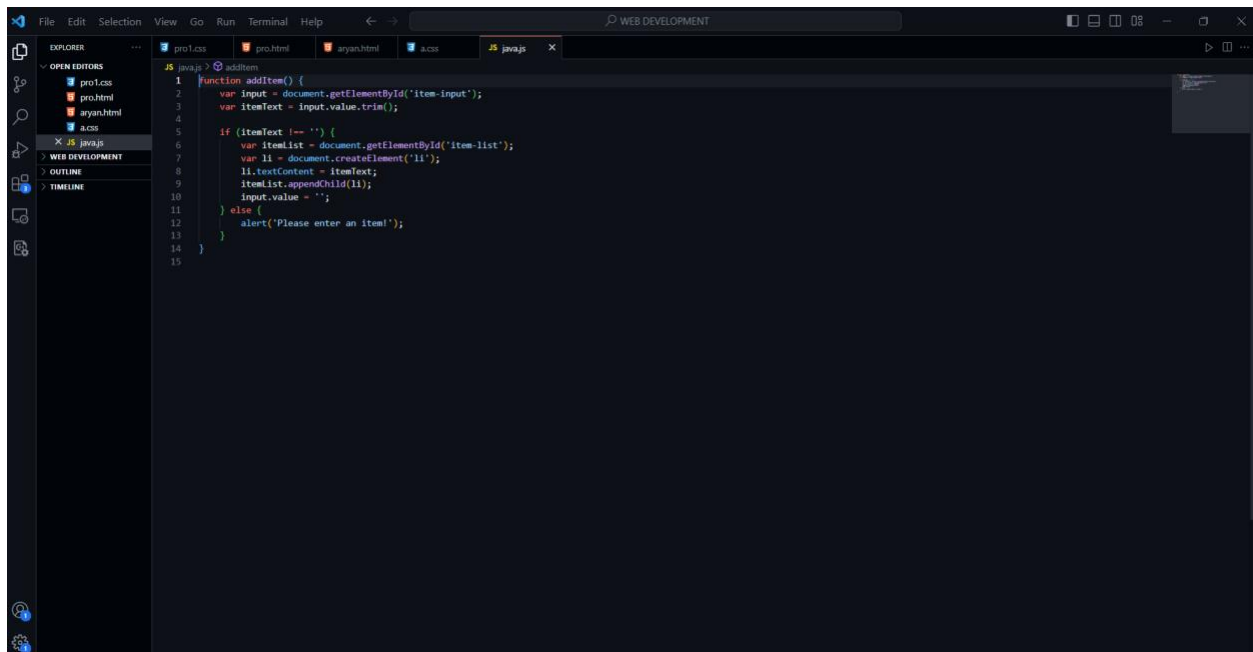
```
1 /* styles.css */
2
3 body {
4   font-family: Arial, sans-serif;
5   margin: 0;
6   padding: 0;
7   background-color: #84b6f0;
8 }
9
10 .container {
11   max-width: 600px;
12   margin: 50px auto;
13   padding: 20px;
14   background-color: #fff;
15   border-radius: 5px;
16   box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
17 }
18
19 h1 {
20   text-align: center;
21 }
22
23 #items-container {
24   display: flex;
25   margin-bottom: 20px;
26 }
27
28 #item-input {
29   flex: 1;
30   padding: 8px;
31   font-size: 16px;
32   border: 1px solid #8c626a;
33   border-radius: 5px 0 0 5px;
34 }
35
36 button {
37   padding: 8px 20px;
38   font-size: 16px;
39   border: none;
40   background-color: #007bff;
41   color: #ffffff;
42   border-radius: 0 5px 5px 0;
43   cursor: pointer;
44 }
45
```



The screenshot shows the Visual Studio Code editor with the following details:

- Explorer Panel:** Contains a tree view with folders `pro1.css`, `pro.html`, and `aryan.html`. The `pro1.css` folder is expanded, showing files `pro1.css`, `pro.html`, and `aryan.html`.
- Editor Panel:** Displays the `pro1.css` file with the following CSS code:

```
23 #items-container {
24   margin-bottom: 20px;
25 }
26
27
28 #item-input {
29   flex: 1;
30   padding: 8px;
31   font-size: 16px;
32   border: 1px solid #ccc;
33   border-radius: 5px 0 0 5px;
34 }
35
36
37 button {
38   padding: 8px 20px;
39   font-size: 16px;
40   border: none;
41   background-color: #007bff;
42   color: #ffffff;
43   border-radius: 0 5px 5px 0;
44   cursor: pointer;
45 }
46
47 ul {
48   list-style: none;
49   padding: 0;
50 }
51
52 li {
53   padding: 10px;
54   border-bottom: 1px solid #eee;
55 }
56
57 li:last-child {
58   border-bottom: none;
59 }
```



The screenshot shows the Visual Studio Code editor with the following details:

- Explorer Panel:** Contains a tree view with folders `pro1.css`, `pro.html`, and `aryan.html`. The `pro1.css` folder is expanded, showing files `pro1.css`, `pro.html`, and `aryan.html`.
- Editor Panel:** Displays the `pro1.js` file with the following JavaScript code:

```
1 function addItem() {
2   var input = document.getElementById('item-input');
3   var itemText = input.value.trim();
4
5   if (itemText !== '') {
6     var itemList = document.getElementById('item-list');
7     var li = document.createElement('li');
8     li.textContent = itemText;
9     itemList.appendChild(li);
10    input.value = '';
11  } else {
12    alert('Please enter an item!');
13  }
14 }
15
```

