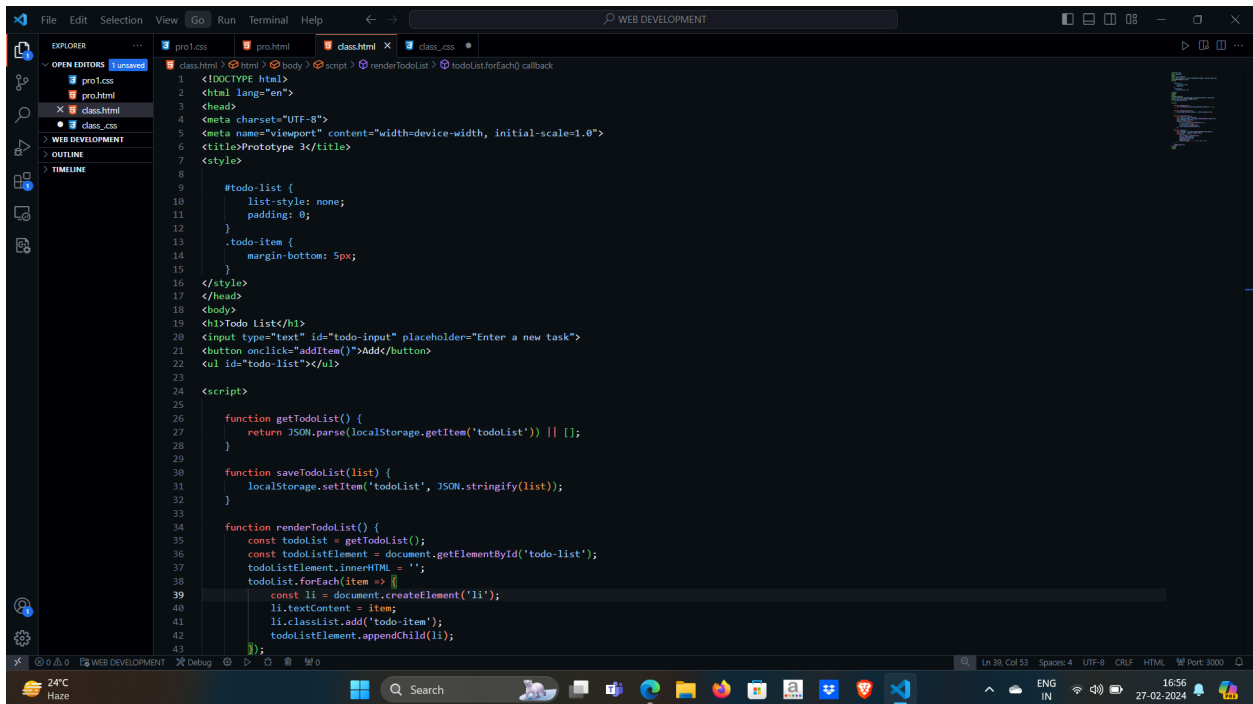


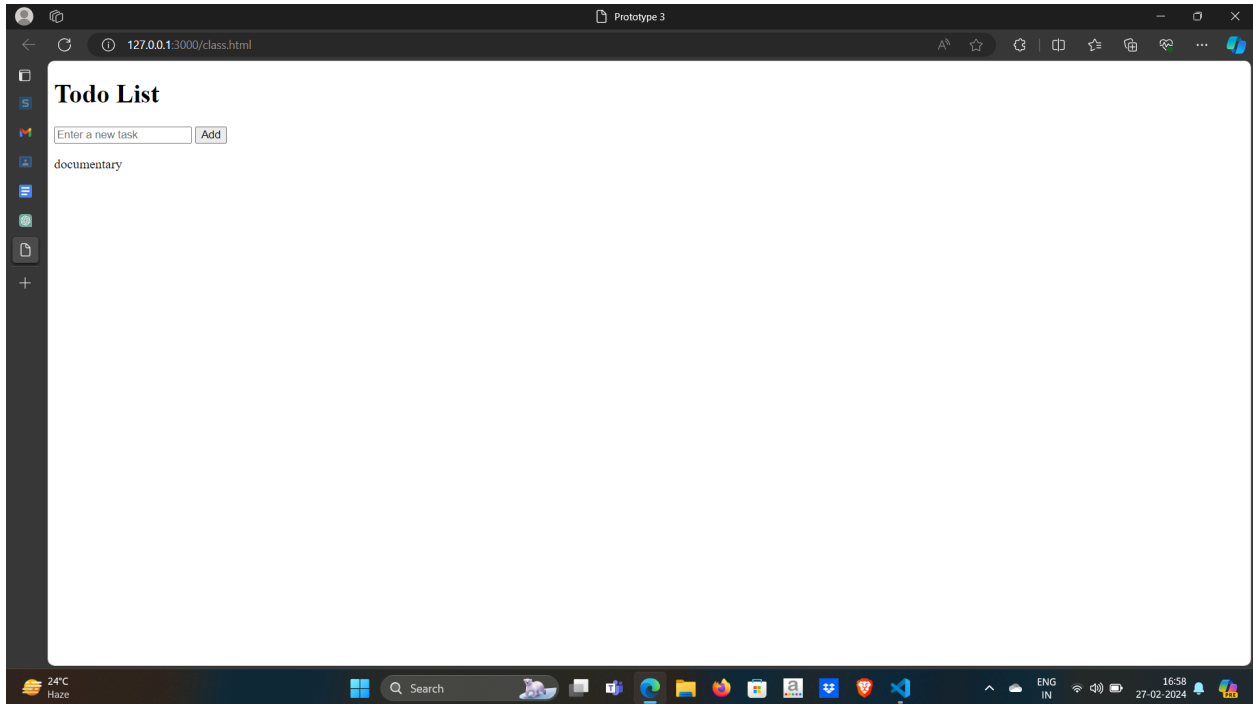
NAME : ARYAN KHAIWAL  
ROLL NO. : 22CS2029

T1. Develop prototype 3 continuing with the last lab.  
Confirm that the app now remembers  
your list even after a page refresh.



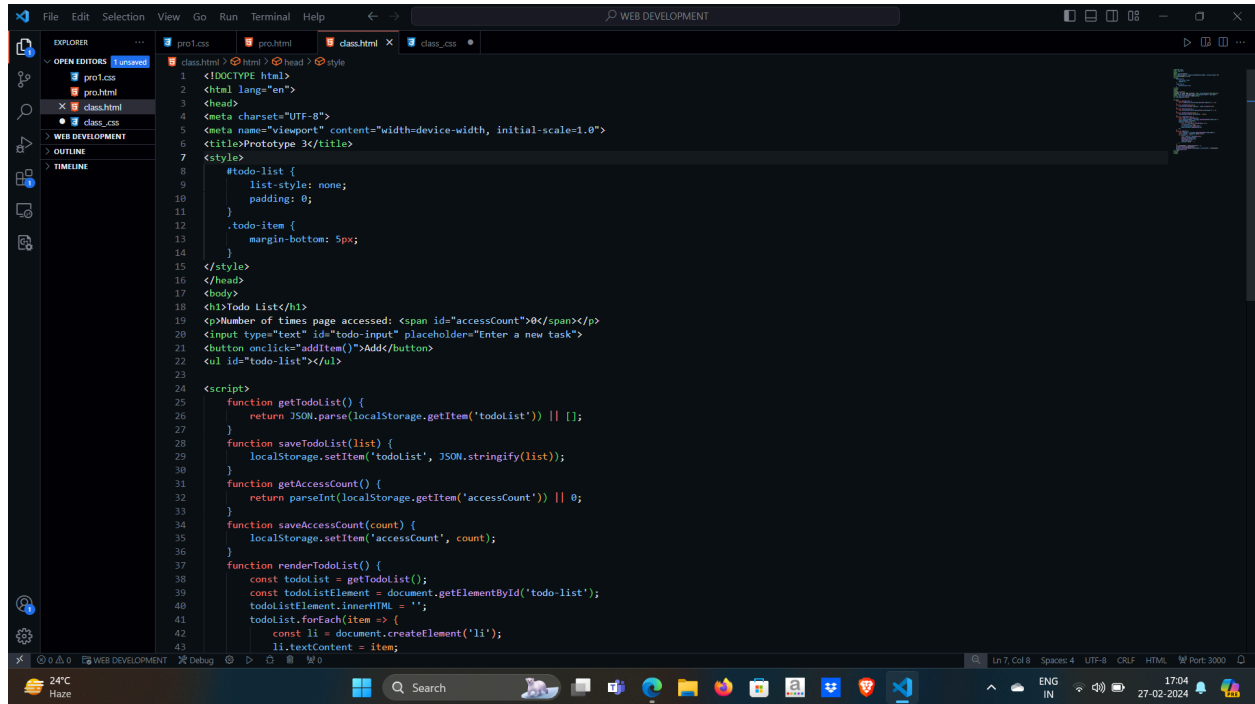
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Prototype 3</title>
7 <style>
8
9     #todo-list {
10         list-style: none;
11         padding: 0;
12     }
13     .todo-item {
14         margin-bottom: 5px;
15     }
16 </style>
17 </head>
18 <body>
19 <h1>Todo List</h1>
20 <input type="text" id="todo-input" placeholder="Enter a new task">
21 <button onclick="addItem()">Add</button>
22 <ul id="todo-list"></ul>
23
24 <script>
25
26     function getTodoList() {
27         return JSON.parse(localStorage.getItem('todoList')) || [];
28     }
29
30     function saveTodoList(list) {
31         localStorage.setItem('todoList', JSON.stringify(list));
32     }
33
34     function renderTodoList() {
35         const todoList = getTodoList();
36         const todoListElement = document.getElementById('todo-list');
37         todoListElement.innerHTML = '';
38         todoList.forEach(item => {
39             const li = document.createElement('li');
40             li.textContent = item;
41             li.classList.add('todo-item');
42             todoListElement.appendChild(li);
43         });
44     }
45
```

```
1 <html lang="en">
2 <body>
3   <script>
4     function saveTodoList(list) {
5       localStorage.setItem('todoList', JSON.stringify(list));
6     }
7
8     function renderTodoList() {
9       const todoList = getTodoList();
10      const todoListElement = document.getElementById('todo-list');
11      todoListElement.innerHTML = '';
12      todoList.forEach(item => {
13        const li = document.createElement('li');
14        li.textContent = item;
15        li.classList.add('todo-item');
16        todoListElement.appendChild(li);
17      });
18    }
19
20    function addItem() {
21      const todoInput = document.getElementById('todo-input');
22      const newItem = todoInput.value.trim();
23      if (newItem !== '') {
24        const todoList = getTodoList();
25        todoList.push(newItem);
26        saveTodoList(todoList);
27        renderTodoList();
28        todoInput.value = ''; // Clear input field
29      }
30    }
31
32    renderTodoList();
33  </script>
34 </body>
35 </html>
```



T2. Create a local storage that saves the number of times you have accessed the page and

displays it.



The screenshot shows a web development IDE with a dark theme. The Explorer panel on the left shows a project structure with files: `pro.css`, `pro.html`, `class.html`, and `class.css`. The main editor displays the `class.html` file, which contains HTML, CSS, and JavaScript code for a todo list application. The CSS code defines styles for a `#todo-list` and its items. The JavaScript code includes functions for retrieving and saving the todo list and access count from local storage, and a function to render the todo list.

```
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>Prototype 3</title>
7 <style>
8   #todo-list {
9     list-style: none;
10    padding: 0;
11  }
12  .todo-item {
13    margin-bottom: 5px;
14  }
15 </style>
16 </head>
17 <body>
18 <div>
19   <div>
20     <input type="text" id="todo-input" placeholder="Enter a new task">
21     <button onclick="addItem()">Add</button>
22   <ul id="todo-list"></ul>
23 </div>
24 </div>
25 <script>
26   function getTodoList() {
27     return JSON.parse(localStorage.getItem('todoList')) || [];
28   }
29   function saveTodoList(list) {
30     localStorage.setItem('todoList', JSON.stringify(list));
31   }
32   function getAccessCount() {
33     return parseInt(localStorage.getItem('accessCount')) || 0;
34   }
35   function saveAccessCount(count) {
36     localStorage.setItem('accessCount', count);
37   }
38   function renderTodoList() {
39     const todoList = getTodoList();
40     const todoListElement = document.getElementById('todo-list');
41     todoListElement.innerHTML = '';
42     todoList.forEach(item => {
43       const li = document.createElement('li');
44       li.textContent = item;
45     });
46   }
47 </script>
48 </body>
49 </html>
```

```
2 <html lang="en">
17 <body>
24 <script>
31   function getAccessCount() {
32   }
33   function saveAccessCount(count) {
34     localStorage.setItem('accessCount', count);
35   }
36   function renderTodoList() {
37     const todoList = getTodoList();
38     const todoListElement = document.getElementById('todo-list');
39     todoListElement.innerHTML = '';
40     todoList.forEach(item => {
41       const li = document.createElement('li');
42       li.textContent = item;
43       li.classList.add('todo-item');
44       todoListElement.appendChild(li);
45     });
46   }
47   function addItem() {
48     const todoInput = document.getElementById('todo-input');
49     const newItem = todoInput.value.trim();
50     if (newItem !== '') {
51       const todoList = getTodoList();
52       todoList.push(newItem);
53       saveAccessCount(todoList);
54       renderTodoList();
55       todoInput.value = '';
56     }
57   }
58   let accessCount = getAccessCount() + 1;
59   saveAccessCount(accessCount);
60   document.getElementById('accessCount').textContent = accessCount;
61   renderTodoList();
62 </script>
63 </body>
64 </html>
```

