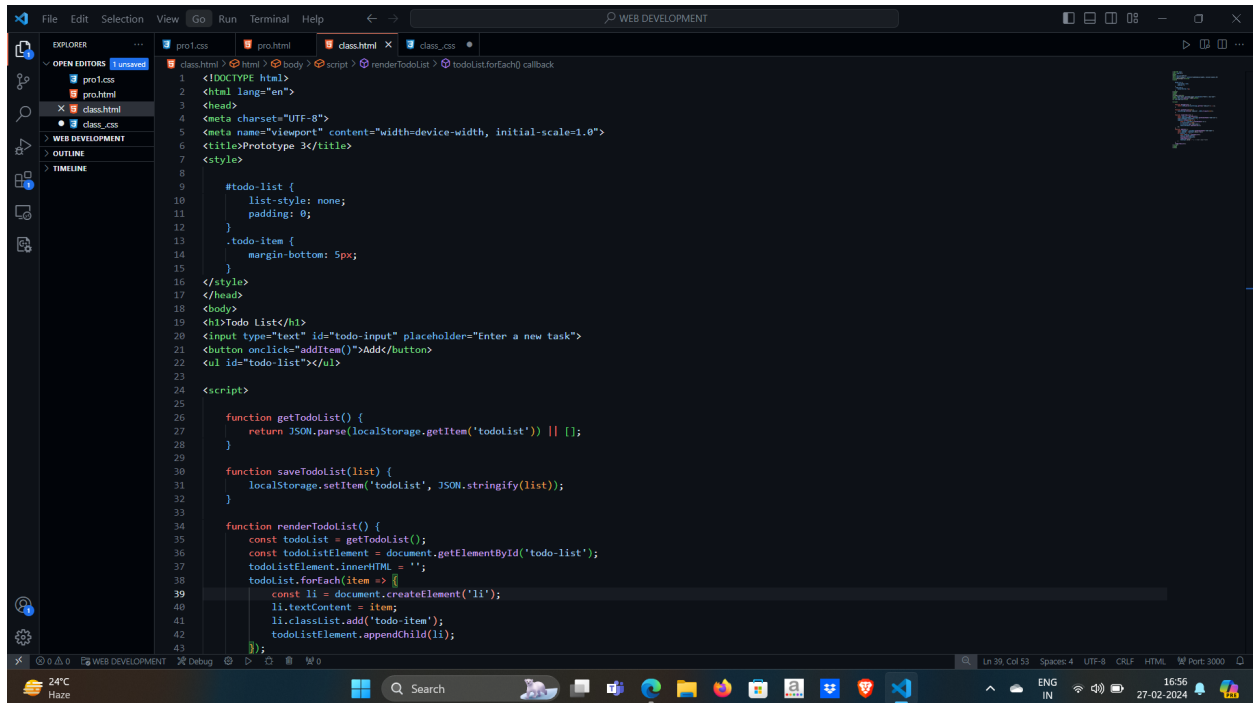


NAME : Nivisht Gola

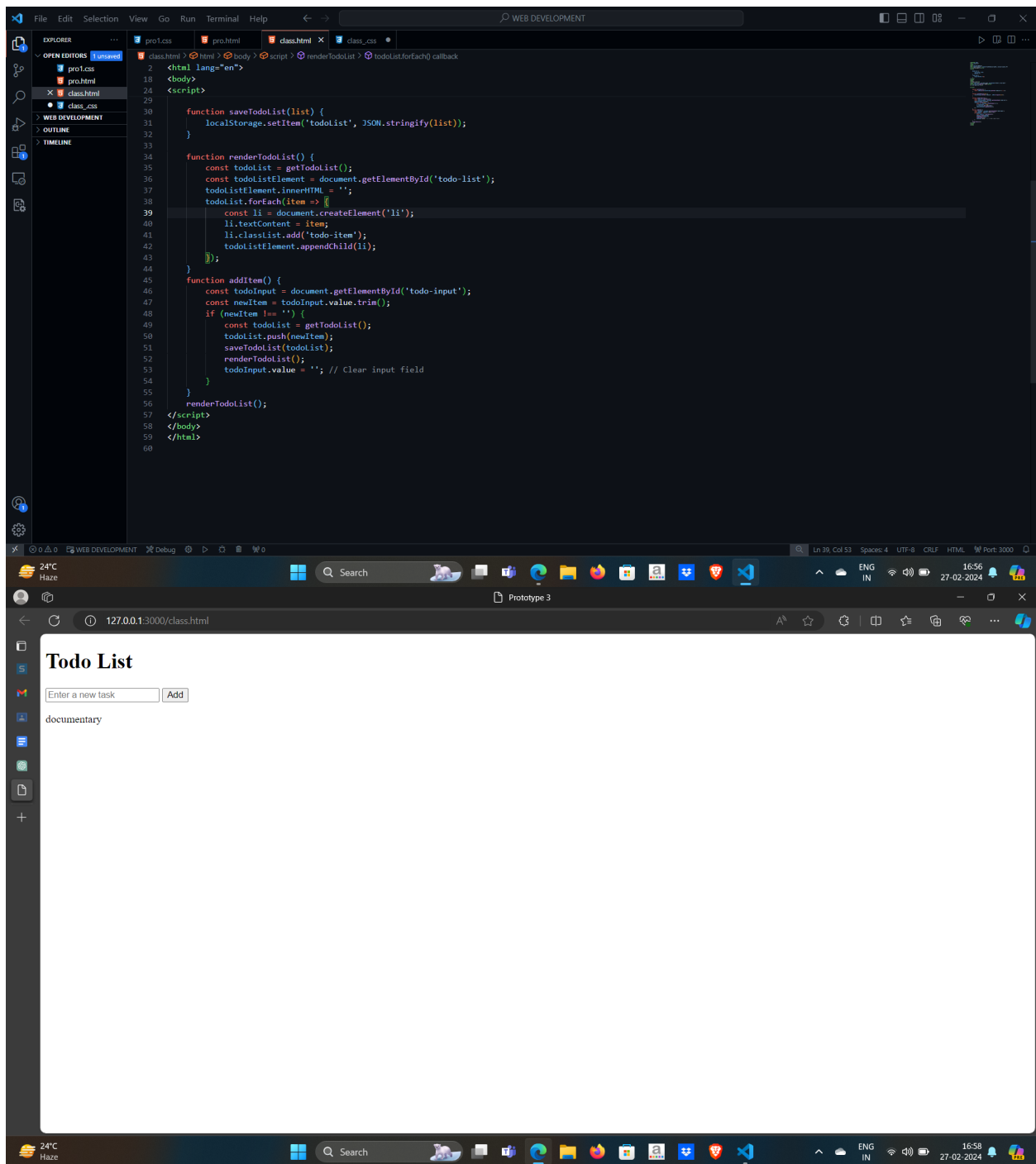
ROLL NO. : 22CS2004

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



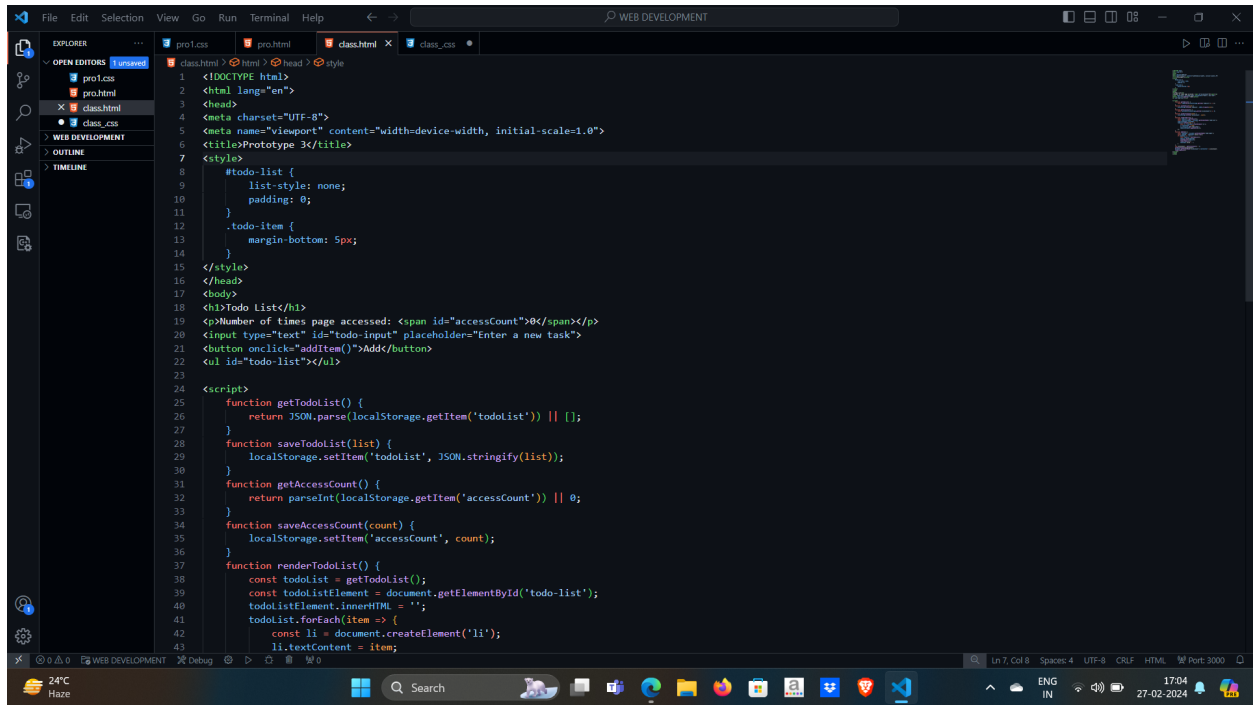
The screenshot shows a web development IDE with a file explorer on the left containing 'pro1.css', 'pro.html', 'class.html', and 'class.css'. The main editor displays the 'class.html' file, which contains HTML, CSS, and JavaScript code for a todo list application. The HTML includes a title 'Prototype 3', a CSS style for the todo list, and a form with an input field and an 'Add' button. The JavaScript code defines functions to retrieve, save, and render the todo list from and to localStorage.

```
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 </script>
```



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

displays it.



The screenshot shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left shows a project structure with files: `pro1.css`, `pro.html`, `class.html`, and `class.css`. The main editor area displays the content of `class.html`, which includes HTML, CSS, and JavaScript code. The code is as follows:

```
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 <h1>Todo List</h1>
19 <p>Number of times page accessed: <span id="accessCount">0</span></p>
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     function getTodoList() {
26         return JSON.parse(localStorage.getItem('todoList')) || [];
27     }
28     function saveTodoList(list) {
29         localStorage.setItem('todoList', JSON.stringify(list));
30     }
31     function getAccessCount() {
32         return parseInt(localStorage.getItem('accessCount')) || 0;
33     }
34     function saveAccessCount(count) {
35         localStorage.setItem('accessCount', count);
36     }
37     function renderTodoList() {
38         const todoList = getTodoList();
39         const todoListElement = document.getElementById('todo-list');
40         todoListElement.innerHTML = '';
41         todoList.forEach(item => {
42             const li = document.createElement('li');
43             li.textContent = item;
44         });
```

The status bar at the bottom indicates the file is `Ln 7, Col 8`, with `Spaces: 4`, `UTF-8` encoding, `CRLF` line endings, and `HTML` language. The system tray at the bottom shows the date and time as `27-02-2024` and `17:04`.

File Edit Selection View Go Run Terminal Help

WEB DEVELOPMENT

EXPLORER

class.html

pro.css

pro.html

class.html

class.css

WEB DEVELOPMENT

OUTLINE

TIMELINE

class.html

2 <html lang="en">

17 <body>

24 <script>

31 function getAccessCount() {

33 }

34 function saveAccessCount(count) {

35 localStorage.setItem('accessCount', count);

36 }

37 }

38 const todoList = getTodoList();

39 const todoListElement = document.getElementById('todo-list');

40 todoListElement.innerHTML = '';

41 todoList.forEach(item => {

42 const li = document.createElement('li');

43 li.textContent = item;

44 li.classList.add('todo-item');

45 todoListElement.appendChild(li);

46 });

47 }

48 function addItem() {

49 const todoInput = document.getElementById('todo-input');

50 const newItem = todoInput.value.trim();

51 if (newItem !== '') {

52 const todoList = getTodoList();

53 todoList.push(newItem);

54 saveAccessCount(todoList);

55 renderTodoList();

56 todoInput.value = '';

57 }

58 }

59 let accessCount = getAccessCount() + 1;

60 saveAccessCount(accessCount);

61 document.getElementById('accessCount').textContent = accessCount;

62 renderTodoList();

63 </script>

64 </body>

65 </html>

66 }

24°C Haze

Search

Prototype 3

127.0.0.1:3000/class.html

ENG IN 17:04 27-02-2024

Todo List

Number of times page accessed: 1

Enter a new task

documentary

education