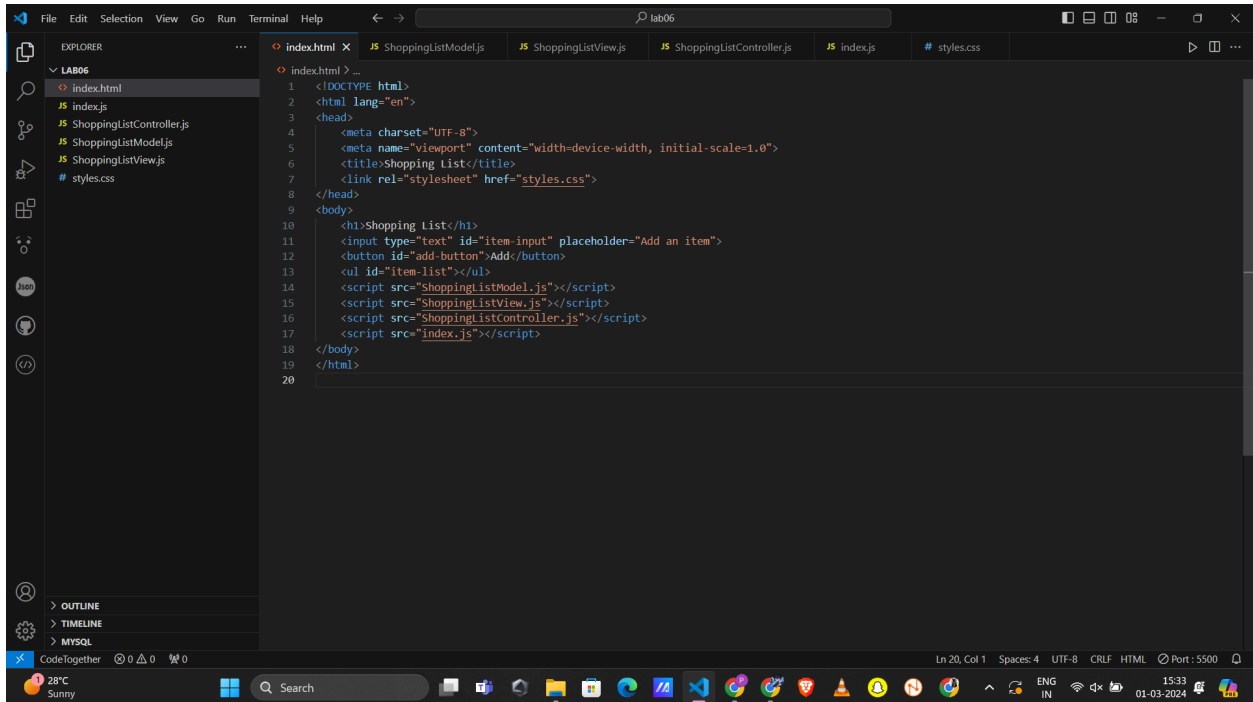


LAB-6

Name - Prashant Singh

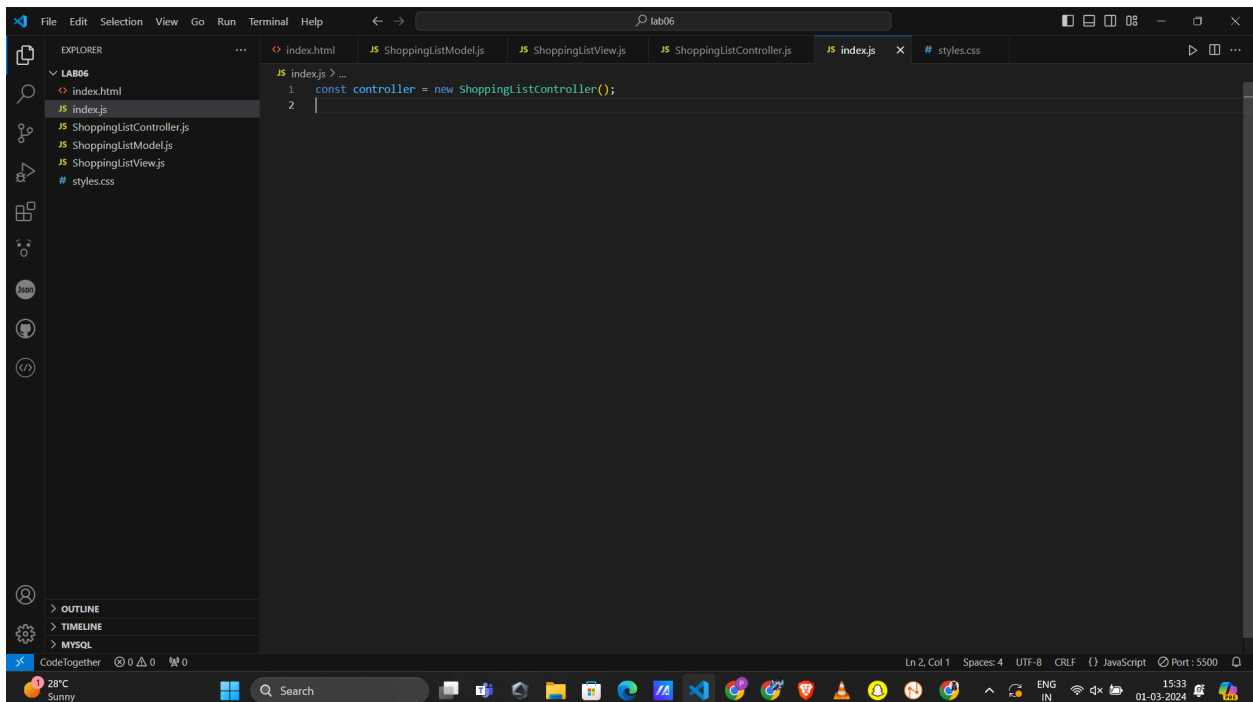
Roll No. - 22IT3029



This screenshot shows the Visual Studio Code editor with the 'index.html' file open. The Explorer sidebar on the left shows a project named 'LAB06' containing files: 'index.html', 'index.js', 'ShoppingListController.js', 'ShoppingListModel.js', 'ShoppingListView.js', and 'styles.css'. The main editor area displays the HTML code for 'index.html'.

```
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="styles.css">
8 </head>
9 <body>
10  <h1>Shopping List</h1>
11  <input type="text" id="item-input" placeholder="Add an item">
12  <button id="add-button">Add</button>
13  <ul id="item-list"></ul>
14  <script src="ShoppingListModel.js"></script>
15  <script src="ShoppingListView.js"></script>
16  <script src="ShoppingListController.js"></script>
17  <script src="index.js"></script>
18 </body>
19 </html>
20
```

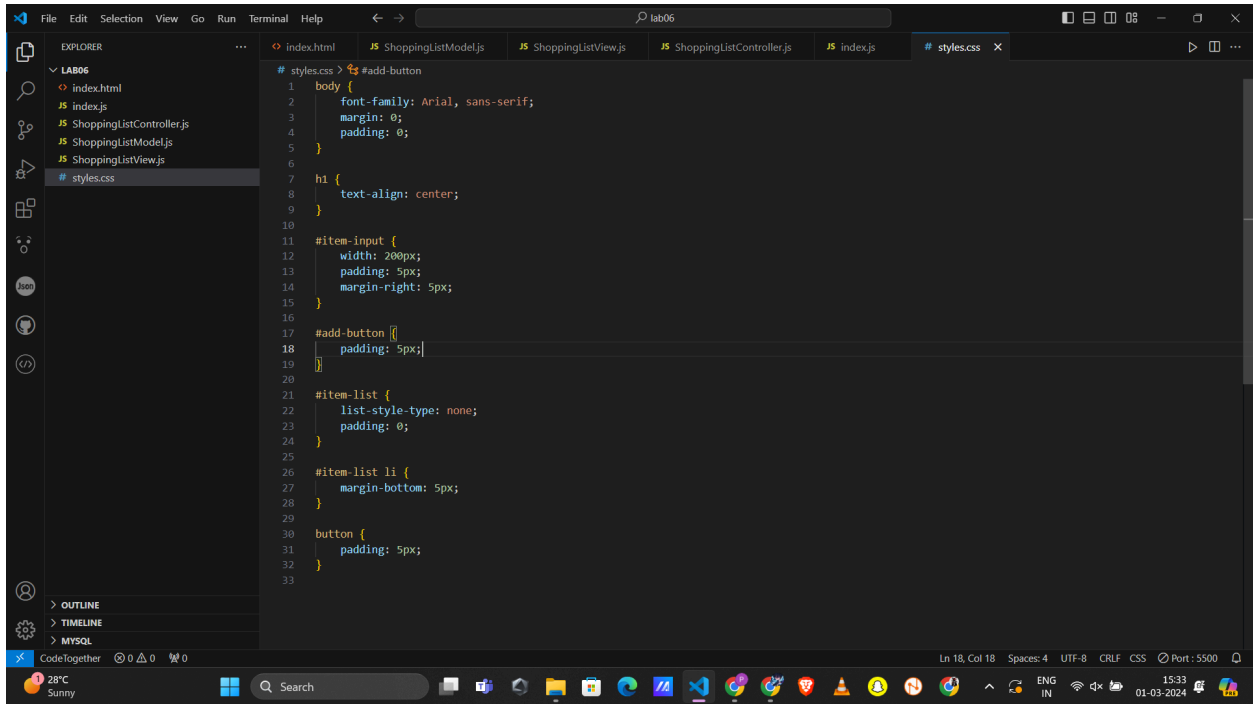
The status bar at the bottom indicates 'Ln 20, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'HTML', and 'Port: 5500'.



This screenshot shows the Visual Studio Code editor with the 'index.js' file open. The Explorer sidebar on the left shows the same project structure as the previous screenshot. The main editor area displays the JavaScript code for 'index.js'.

```
1 const controller = new ShoppingListController();
2
```

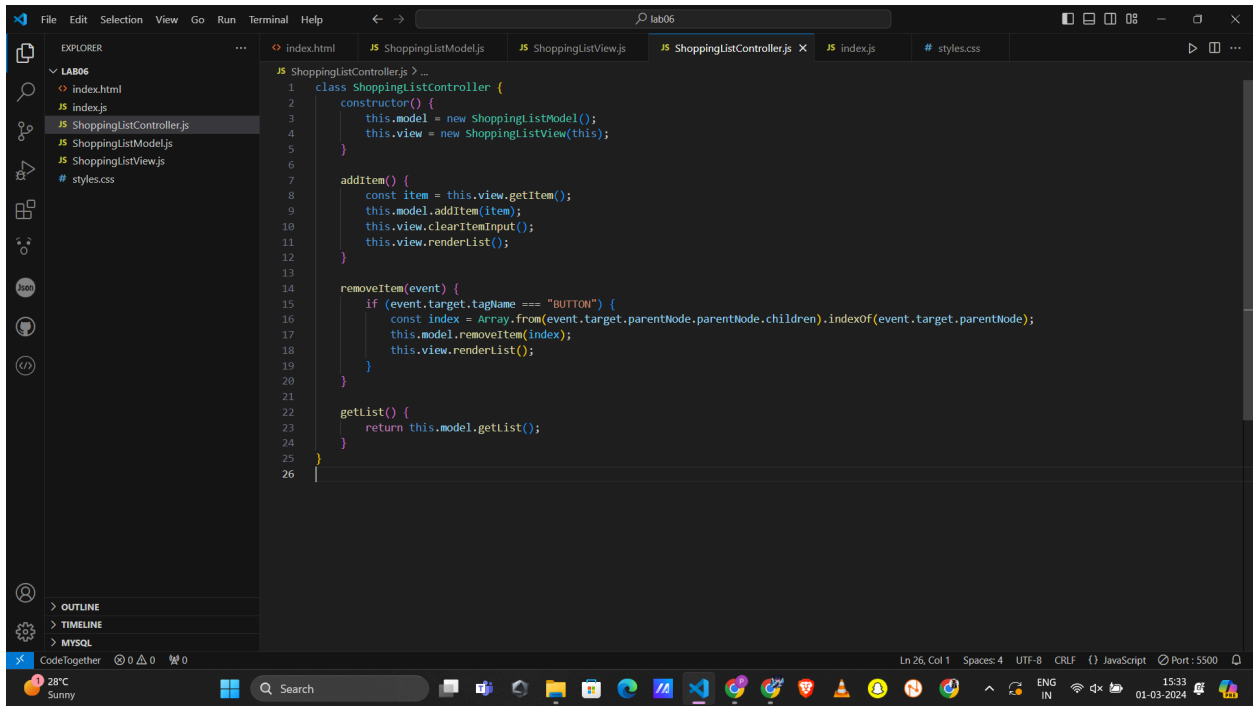
The status bar at the bottom indicates 'Ln 2, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'JavaScript', and 'Port: 5500'.



This screenshot shows the Visual Studio Code editor with the 'styles.css' file open. The Explorer sidebar on the left shows a project named 'LAB06' with files 'index.html', 'index.js', 'ShoppingListController.js', 'ShoppingListModel.js', 'ShoppingListView.js', and 'styles.css'. The main editor area displays the following CSS code:

```
#add-button
1 body {
2   font-family: Arial, sans-serif;
3   margin: 0;
4   padding: 0;
5 }
6
7 h1 {
8   text-align: center;
9 }
10
11 #item-input {
12   width: 200px;
13   padding: 5px;
14   margin-right: 5px;
15 }
16
17 #add-button {
18   padding: 5px;
19 }
20
21 #item-list {
22   list-style-type: none;
23   padding: 0;
24 }
25
26 #item-list li {
27   margin-bottom: 5px;
28 }
29
30 button {
31   padding: 5px;
32 }
33
```

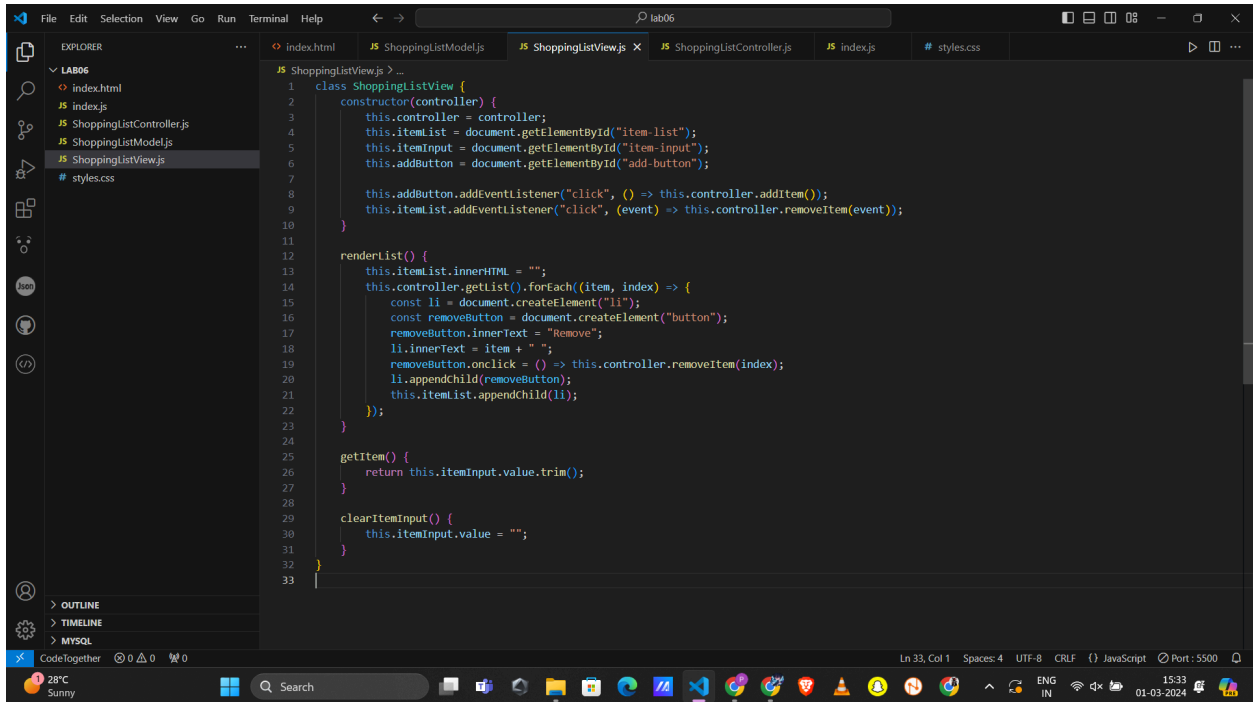
The status bar at the bottom indicates 'Ln 18, Col 18', 'Spaces: 4', 'UTF-8', 'CRLF', 'CSS', and 'Port: 5500'.



This screenshot shows the Visual Studio Code editor with the 'ShoppingListController.js' file open. The Explorer sidebar on the left shows the same project 'LAB06' with files 'index.html', 'index.js', 'ShoppingListController.js', 'ShoppingListModel.js', 'ShoppingListView.js', and 'styles.css'. The main editor area displays the following JavaScript code:

```
ShoppingListController.js > ...
1 class ShoppingListController {
2   constructor() {
3     this.model = new ShoppingListModel();
4     this.view = new ShoppingListView(this);
5   }
6
7   addItem() {
8     const item = this.view.getItem();
9     this.model.addItem(item);
10    this.view.clearItemInput();
11    this.view.renderList();
12  }
13
14  removeItem(event) {
15    if (event.target.tagName === "BUTTON") {
16      const index = Array.from(event.target.parentNode.children).indexOf(event.target.parentNode);
17      this.model.removeItem(index);
18      this.view.renderList();
19    }
20  }
21
22  getList() {
23    return this.model.getList();
24  }
25 }
26
```

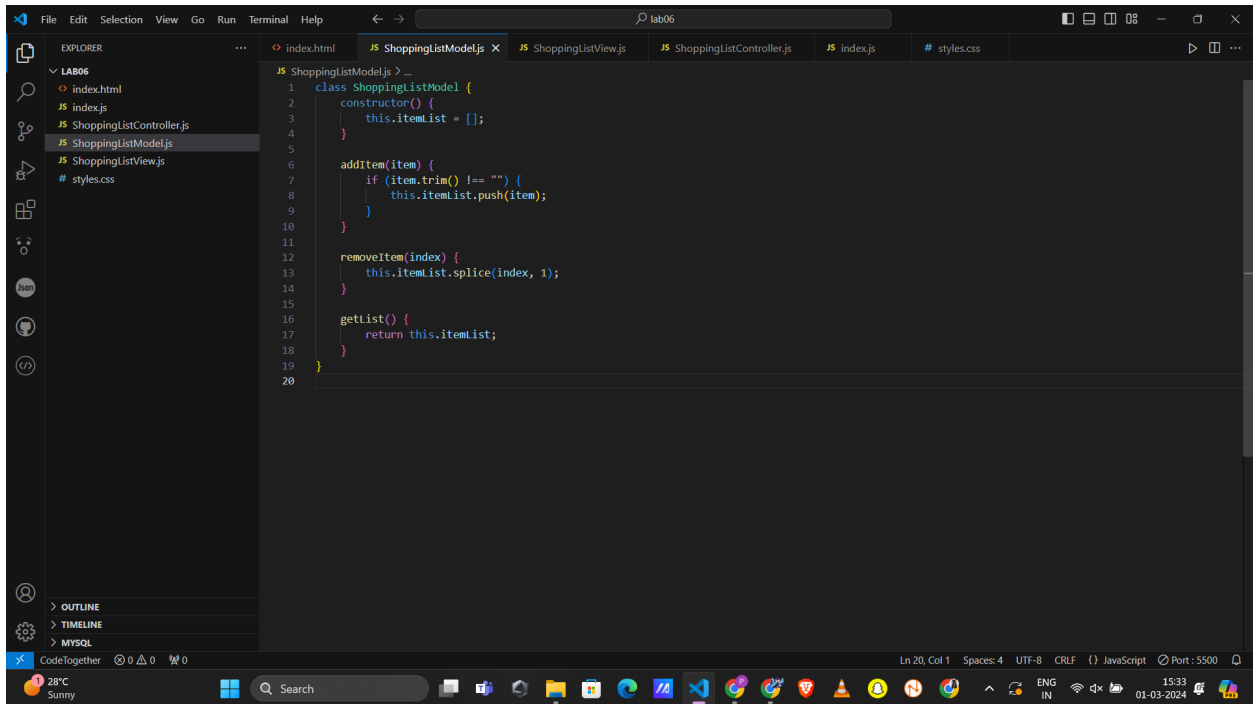
The status bar at the bottom indicates 'Ln 26, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'JavaScript', and 'Port: 5500'.



This screenshot shows the Visual Studio Code editor with the file `ShoppingListView.js` open. The Explorer sidebar on the left shows a project named `LAB06` with files `index.html`, `index.js`, `ShoppingListController.js`, `ShoppingListModel.js`, `ShoppingListView.js`, and `styles.css`. The `ShoppingListView.js` file contains the following JavaScript code:

```
1 class ShoppingListView {
2   constructor(controller) {
3     this.controller = controller;
4     this.itemList = document.getElementById("item-list");
5     this.itemInput = document.getElementById("item-input");
6     this.addButton = document.getElementById("add-button");
7
8     this.addButton.addEventListener("click", () => this.controller.addItem());
9     this.itemList.addEventListener("click", (event) => this.controller.removeItem(event));
10  }
11
12  renderList() {
13    this.itemList.innerHTML = "";
14    this.controller.getList().forEach((item, index) => {
15      const li = document.createElement("li");
16      const removeButton = document.createElement("button");
17      removeButton.innerText = "Remove";
18      li.innerText = item + " ";
19      removeButton.onclick = () => this.controller.removeItem(index);
20      li.appendChild(removeButton);
21      this.itemList.appendChild(li);
22    });
23  }
24
25  getItem() {
26    return this.itemInput.value.trim();
27  }
28
29  clearItemInput() {
30    this.itemInput.value = "";
31  }
32
33 }
```

The status bar at the bottom indicates the cursor is at line 33, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and JavaScript syntax. The system tray shows a temperature of 28°C, sunny weather, and the date 01-03-2024 at 15:33.



This screenshot shows the Visual Studio Code editor with the file `ShoppingListModel.js` open. The Explorer sidebar on the left shows the same project `LAB06` with files `index.html`, `index.js`, `ShoppingListController.js`, `ShoppingListModel.js`, `ShoppingListView.js`, and `styles.css`. The `ShoppingListModel.js` file contains the following JavaScript code:

```
1 class ShoppingListModel {
2   constructor() {
3     this.itemList = [];
4   }
5
6   addItem(item) {
7     if (item.trim() !== "") {
8       this.itemList.push(item);
9     }
10  }
11
12  removeItem(index) {
13    this.itemList.splice(index, 1);
14  }
15
16  getList() {
17    return this.itemList;
18  }
19
20 }
```

The status bar at the bottom indicates the cursor is at line 20, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and JavaScript syntax. The system tray shows a temperature of 28°C, sunny weather, and the date 01-03-2024 at 15:33.



Shopping List

- McLaren
- Bugatti
- Audi
- Mercedes
- Koenigsegg

