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Web Technology
Lab - 6

Q1)

Html file

```
E:\Sem - 4 > CS - 222 - Web Technology > lab6 > <=> 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="style.css">
8  </head>
9  <body>
10
11  <div id="shopping-list">
12      <h2>Shopping List</h2>
13      <ul id="list-items"></ul>
14      <div>
15          <input type="text" id="item-input" placeholder="Add item...">
16          <button id="add-btn">Add</button>
17      </div>
18
19      <script src="model.js"></script>
20      <script src="view.js"></script>
21      <script src="controller.js"></script>
22  </div>
23
24  </body>
25  </html>
26  |
```

Css file

```
E: > Sem - 4 > CS - 222 - Web Technology > lab6 > style.css > body
1 body {
2   font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
3   background-color: #f0f0f0;
4   margin: 20px;
5 }
6
7 #shopping-list {
8   width: 400px;
9   margin: 0 auto;
10  background-color: #ffff;
11  border-radius: 10px;
12  padding: 20px;
13  box-shadow: 0 0 10px #rgb(0, 0, 0, 0.1);
14 }
15
16 h2 {
17   color: #333;
18   text-align: center;
19 }
20
21 #list-items {
22   list-style-type: none;
23   padding: 0;
24 }
25
26 #list-items li {
27   padding: 10px;
28   border-bottom: 1px solid #ddd;
29   font-size: 14px;
30 }
31
32 #item-input {
33   width: 70%;
34   padding: 10px;
35   font-size: 14px;
36 }
37
38 #add-btn {
39   cursor: pointer;
40   padding: 10px 15px;
41   font-size: 14px;
42   background-color: #8ac938;
43   color: #fff;
44   border: none;
45   border-radius: 5px;
46   transition: background-color 0.3s;
47 }
48
49 #add-btn:hover {
50   background-color: #455a4d;
51 }
52
53
```

Model.js file

```
E: > Sem - 4 > CS - 222 - Web Technology > lab6 > JS model.js > ...
1 class ShoppingList {
2   constructor() {
3     this.items = [];
4   }
5
6   addItem(itemText) {
7     this.items.push(itemText);
8   }
9 }
10
11 const shoppingList = new ShoppingList();
12
```

View.js file

E: > Sem - 4 > CS - 222 - Web Technology > lab6 > JS view.js > ...

```
1  // view.js
2  const shoppingListView = (function () {
3      function displayItems() {
4          const list = document.getElementById('list-items');
5          list.innerHTML = '';
6
7          shoppingList.items.forEach(function (itemText) {
8              const listItem = document.createElement('li');
9              listItem.textContent = itemText;
10             list.appendChild(listItem);
11         });
12     }
13
14     return {
15         displayItems: displayItems
16     };
17 })();
18
```

Controller.js file

```
E: > Sem - 4 > CS - 222 - Web Technology > lab6 > JS controller.js > ...
1  // controller.js
2  const shoppingListController = (function () {
3      function handleAddButtonClick() {
4          const inputElement = document.getElementById('item-input');
5          const itemText = inputElement.value.trim();
6
7          if (itemText !== '') {
8              shoppingList.addItem(itemText);
9              shoppingListView.displayItems();
10
11              // Clear input field
12              inputElement.value = '';
13          }
14      }
15
16      document.getElementById('add-btn').addEventListener('click', handleAddButtonClick);
17
18      // Initial display
19      shoppingListView.displayItems();
20  })();
21
```

Output file

