

# Web Technology

## Lab Assignment – 06

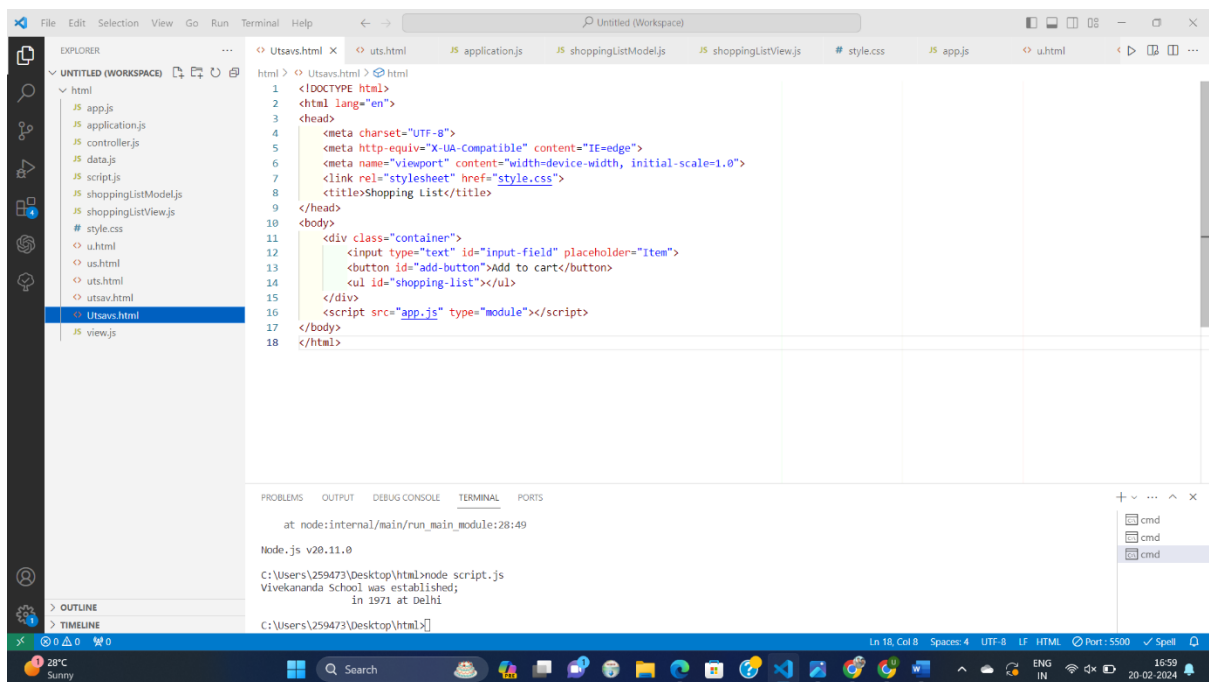
Name :- Utsav Shingala

Roll No. :- 22CS3065

Branch :- CSE

### Task 1)

Simple Shopping List Prototype :-



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <link rel="stylesheet" href="style.css">
8   <title>Shopping List</title>
9 </head>
10 <body>
11   <div class="container">
12     <input type="text" id="input-field" placeholder="Item">
13     <button id="add-button">Add to cart</button>
14     <ul id="shopping-list"></ul>
15   </div>
16   <script src="app.js" type="module"></script>
17 </body>
18 </html>
```

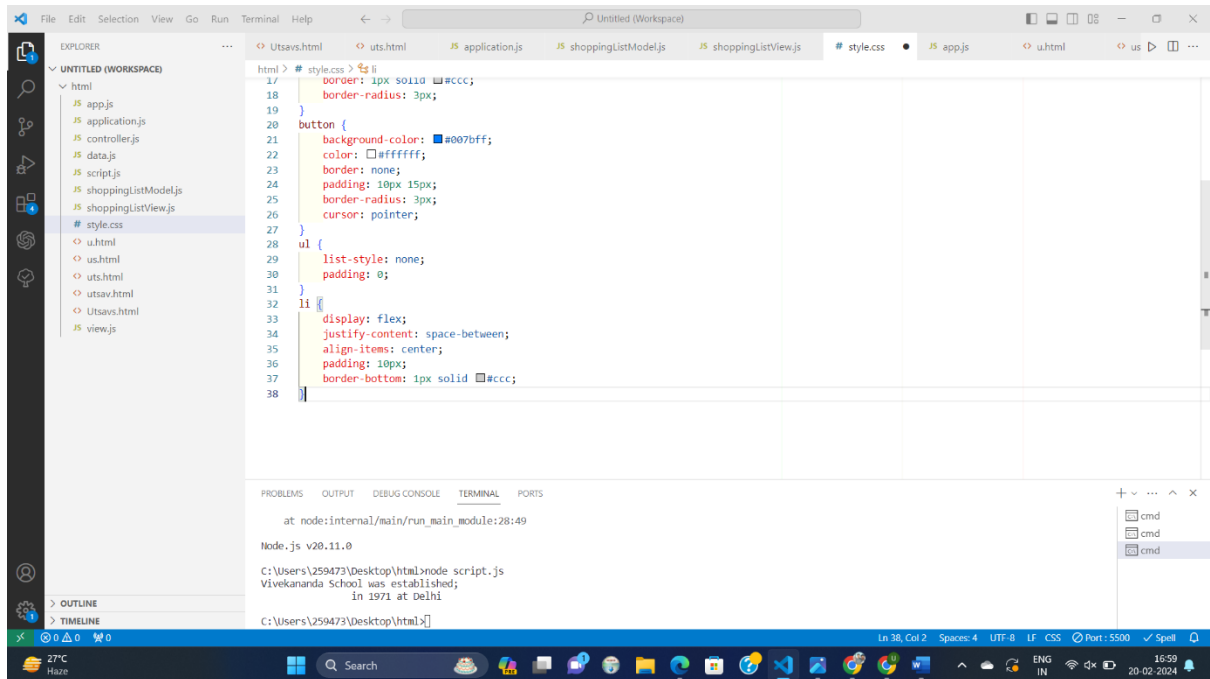
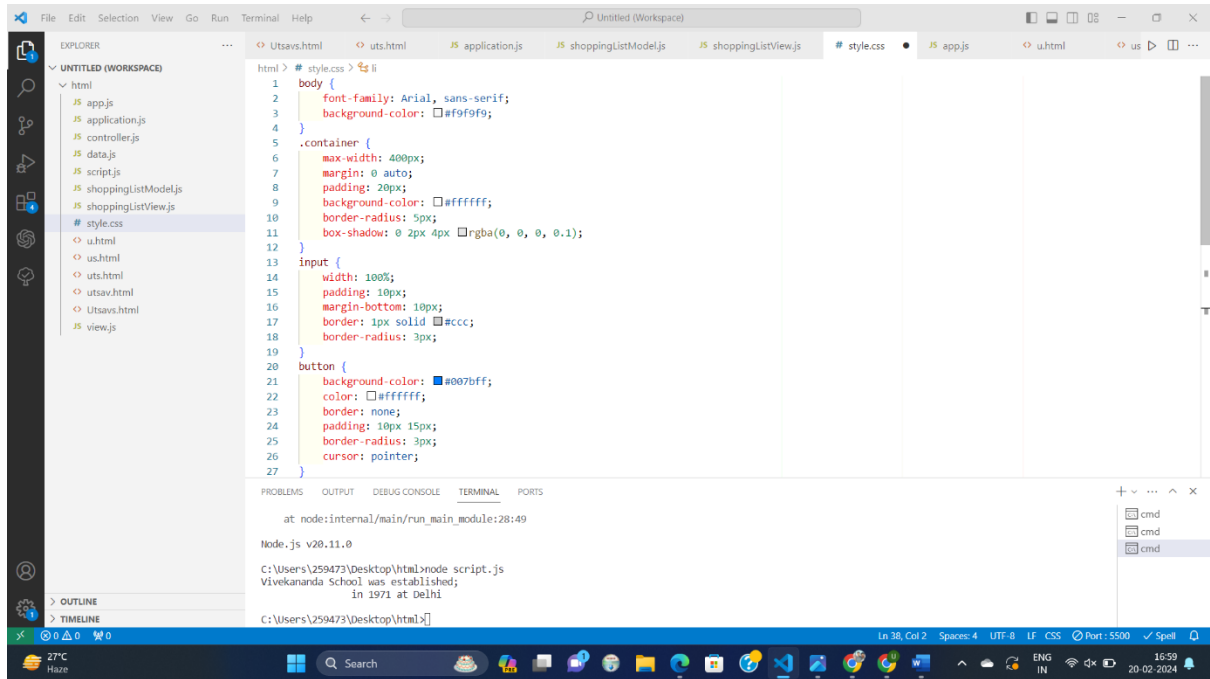
at node:internal/main/run\_main\_module:28:49

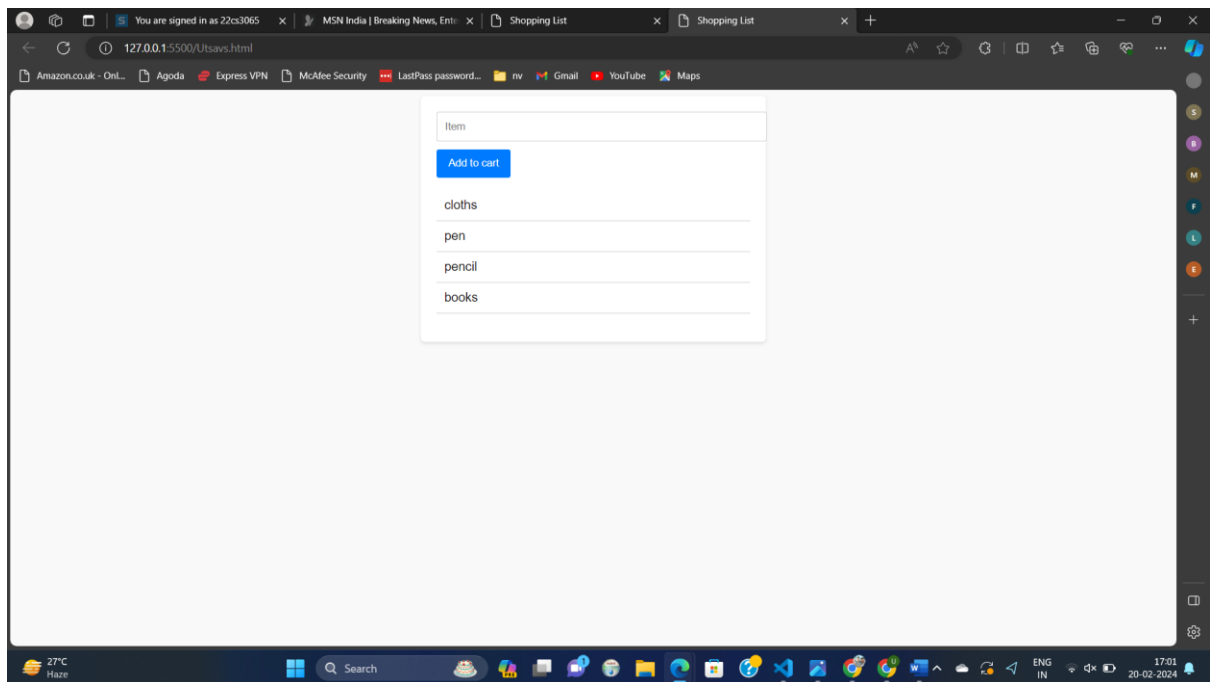
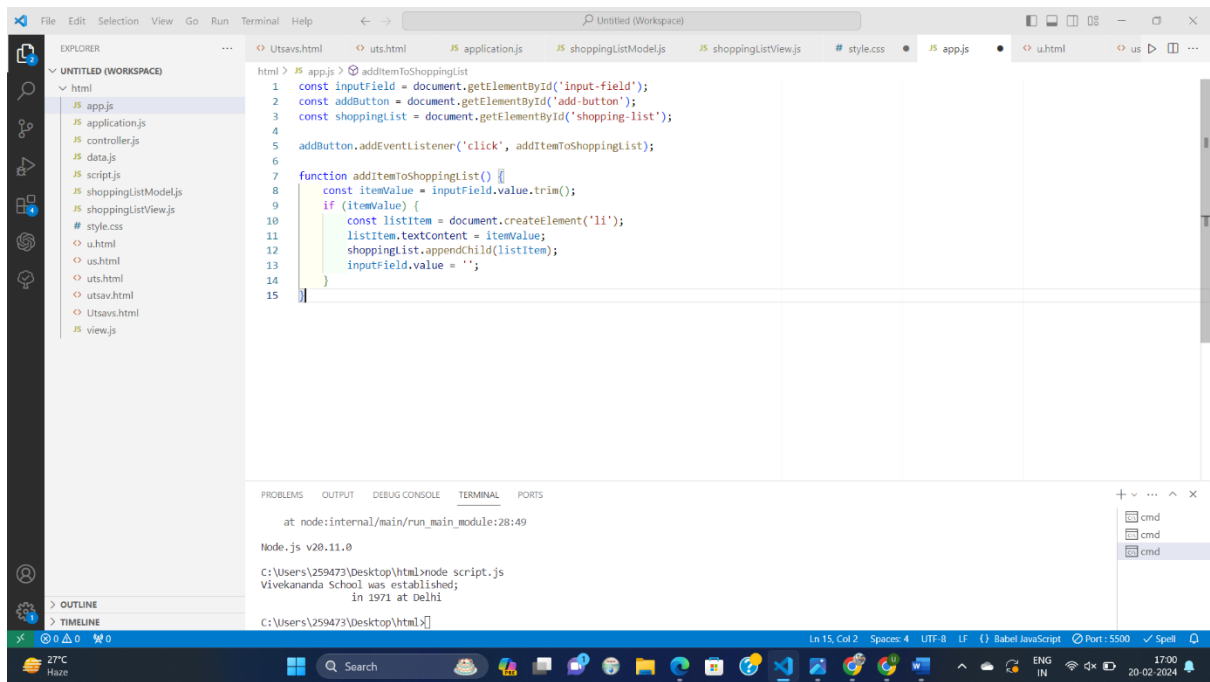
Node.js v20.11.0

C:\Users\259473\Desktop\html>node script.js

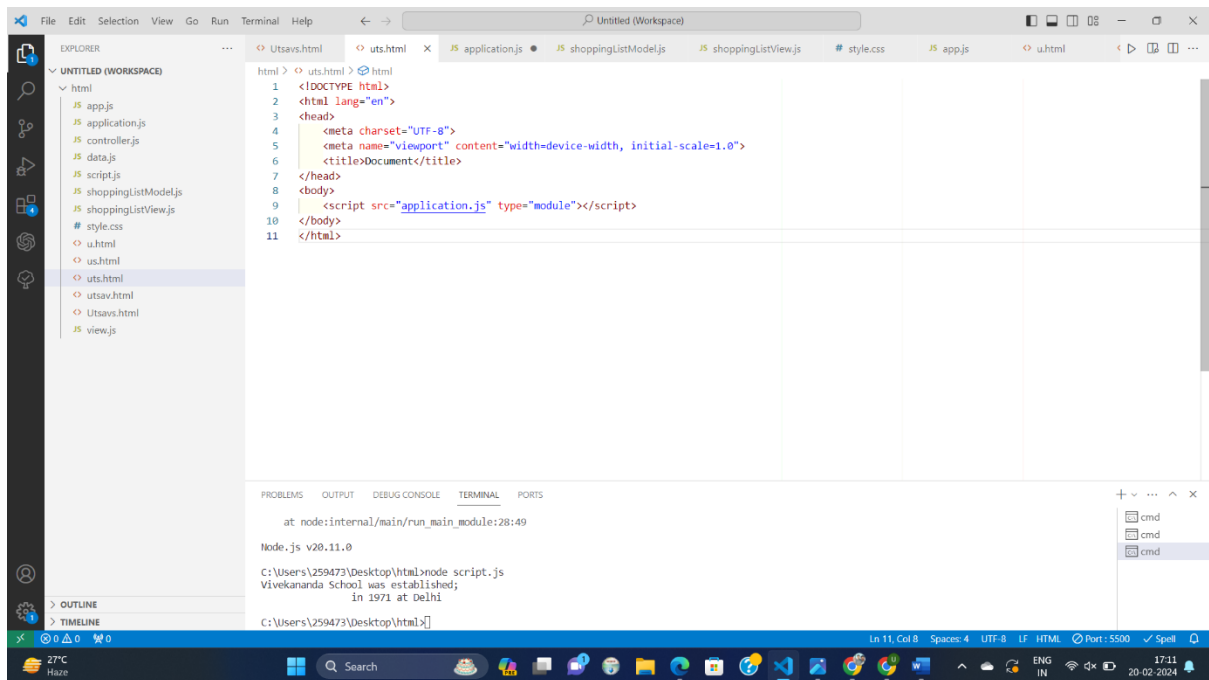
Vivekananda School was established;  
in 1971 at Delhi

C:\Users\259473\Desktop\html>





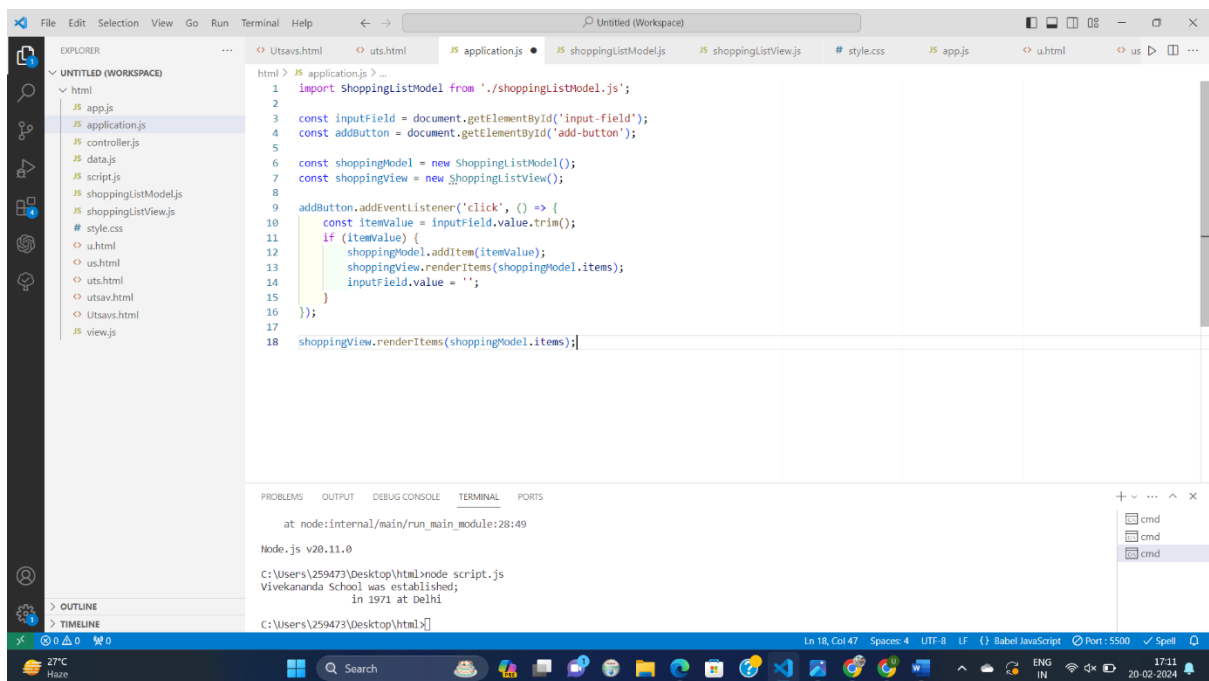
# Model-View-Controller (MVC) architecture :-



This screenshot shows the initial setup of the MVC architecture in VS Code. The Explorer panel on the left displays the file structure, including `uts.html`, `utsav.html`, `Utsavs.html`, and `view.js`. The main editor area shows the content of `uts.html`, which is a basic HTML document with a meta charset of UTF-8, a viewport meta tag, and a script tag for `application.js`. The terminal at the bottom shows the command `node script.js` being executed, which outputs the text "Vivekananda School was established; in 1971 at Delhi".

```
html > <uts.html> <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>Document</title>
7 </head>
8 <body>
9   <script src="application.js" type="module"></script>
10 </body>
11 </html>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
at node:internal/main/run_main_module:28:49
Node.js v20.11.0
c:\Users\259473\Desktop\html>node script.js
Vivekananda School was established;
in 1971 at Delhi
c:\Users\259473\Desktop\html>]
```



This screenshot shows the JavaScript logic for the MVC architecture in `application.js`. The code imports the `ShoppingListModel` from `./shoppingListModel.js`, initializes the `shoppingModel` and `shoppingView`, and adds a click event listener to the `add-button` that updates the model and renders the view. The terminal at the bottom shows the command `node script.js` being executed, which outputs the text "Vivekananda School was established; in 1971 at Delhi".

```
html > JS application.js > ...
1 import ShoppingListModel from './shoppingListModel.js';
2
3 const inputField = document.getElementById('input-field');
4 const addButton = document.getElementById('add-button');
5
6 const shoppingModel = new ShoppingListModel();
7 const shoppingView = new ShoppingListView();
8
9 addButton.addEventListener('click', () => {
10   const itemValue = inputField.value.trim();
11   if (itemValue) {
12     shoppingModel.addItem(itemValue);
13     shoppingView.renderItems(shoppingModel.items);
14     inputField.value = '';
15   }
16 });
17
18 shoppingView.renderItems(shoppingModel.items);]
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
at node:internal/main/run_main_module:28:49
Node.js v20.11.0
c:\Users\259473\Desktop\html>node script.js
Vivekananda School was established;
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c:\Users\259473\Desktop\html>]
```

