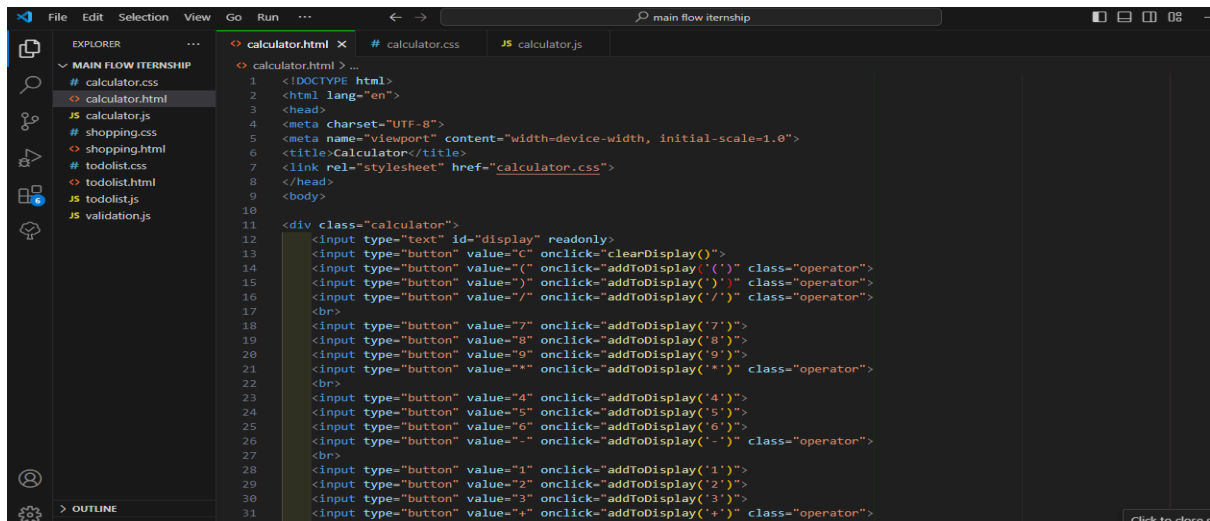
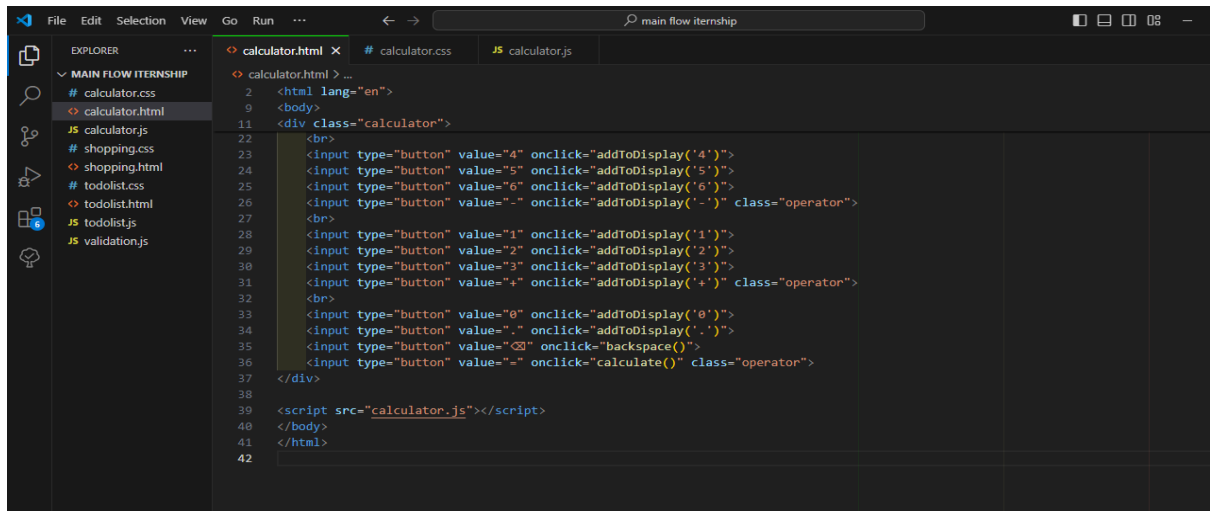


## TASK-5

### Calculator.html

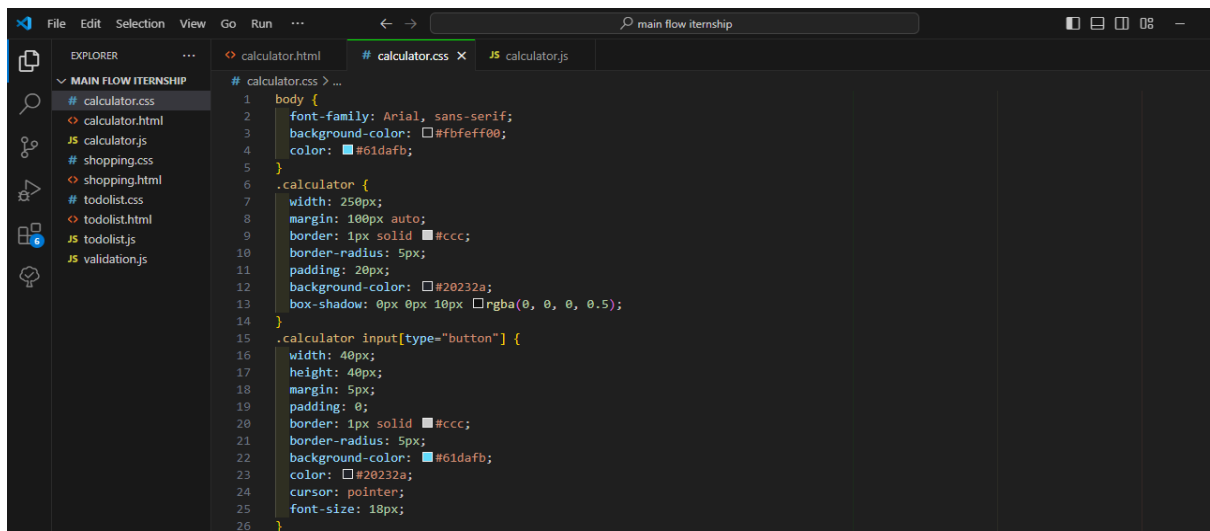


```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Calculator</title>
7 <link rel="stylesheet" href="calculator.css">
8 </head>
9 <body>
10
11 <div class="calculator">
12 <input type="text" id="display" readonly>
13 <input type="button" value="C" onclick="clearDisplay()">
14 <input type="button" value="(" onclick="addToDisplay('(')" class="operator">
15 <input type="button" value=")" onclick="addToDisplay(')')" class="operator">
16 <input type="button" value="/" onclick="addToDisplay('/')" class="operator">
17 <br>
18 <input type="button" value="7" onclick="addToDisplay('7')">
19 <input type="button" value="8" onclick="addToDisplay('8')">
20 <input type="button" value="9" onclick="addToDisplay('9')">
21 <input type="button" value="*" onclick="addToDisplay('*')" class="operator">
22 <br>
23 <input type="button" value="4" onclick="addToDisplay('4')">
24 <input type="button" value="5" onclick="addToDisplay('5')">
25 <input type="button" value="6" onclick="addToDisplay('6')">
26 <input type="button" value="-" onclick="addToDisplay('-')" class="operator">
27 <br>
28 <input type="button" value="1" onclick="addToDisplay('1')">
29 <input type="button" value="2" onclick="addToDisplay('2')">
30 <input type="button" value="3" onclick="addToDisplay('3')">
31 <input type="button" value="+" onclick="addToDisplay('+')" class="operator">
```

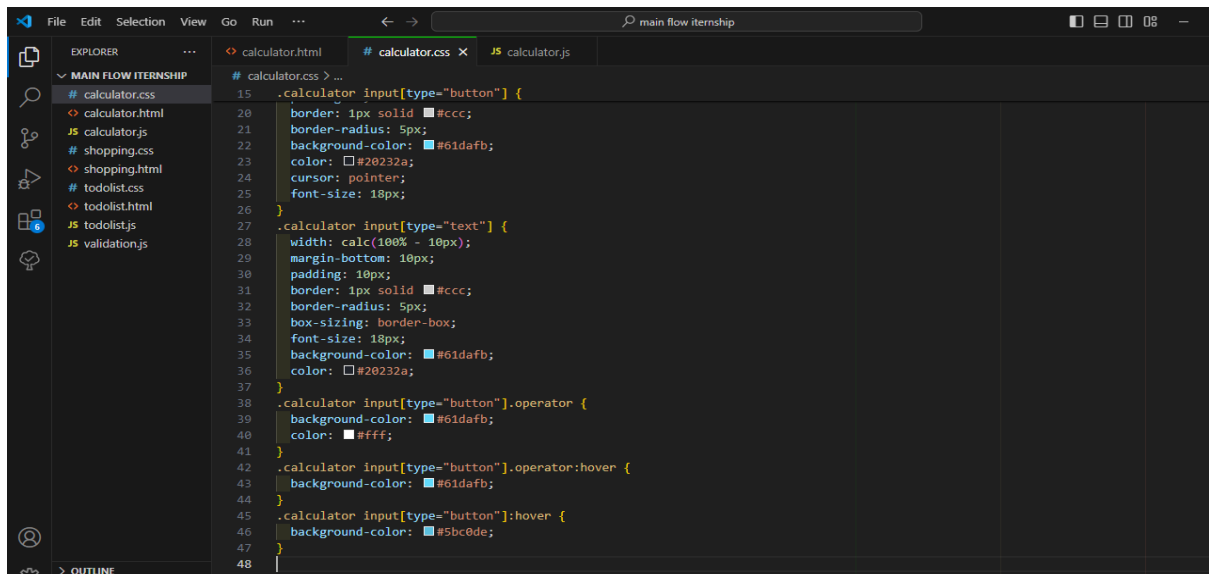


```
22 <br>
23 <input type="button" value="4" onclick="addToDisplay('4')">
24 <input type="button" value="5" onclick="addToDisplay('5')">
25 <input type="button" value="6" onclick="addToDisplay('6')">
26 <input type="button" value="." onclick="addToDisplay('.')" class="operator">
27 <br>
28 <input type="button" value="1" onclick="addToDisplay('1')">
29 <input type="button" value="2" onclick="addToDisplay('2')">
30 <input type="button" value="3" onclick="addToDisplay('3')">
31 <input type="button" value="+" onclick="addToDisplay('+)" class="operator">
32 <br>
33 <input type="button" value="0" onclick="addToDisplay('0')">
34 <input type="button" value="." onclick="addToDisplay('.')">
35 <input type="button" value="⌫" onclick="backspace()">
36 <input type="button" value="=" onclick="calculate()" class="operator">
37 </div>
38
39 <script src="calculator.js"></script>
40 </body>
41 </html>
42
```

### Calculator.css

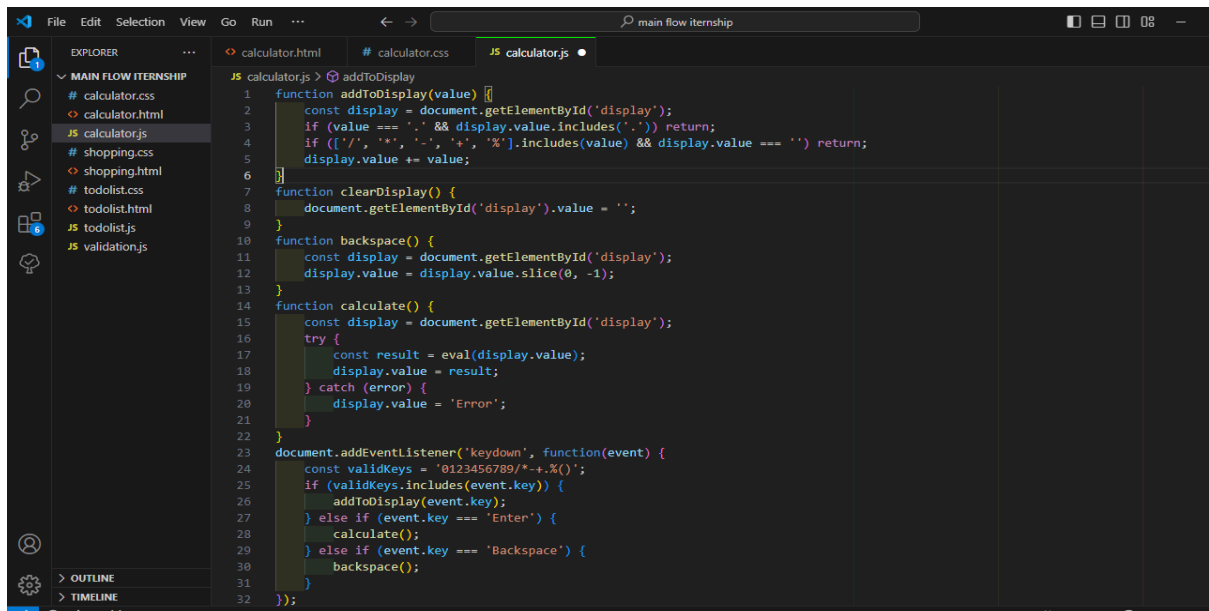


```
1 body {
2   font-family: Arial, sans-serif;
3   background-color: #fbfeff00;
4   color: #61dafb;
5 }
6 .calculator {
7   width: 250px;
8   margin: 100px auto;
9   border: 1px solid #ccc;
10  border-radius: 5px;
11  padding: 20px;
12  background-color: #20232a;
13  box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.5);
14 }
15 .calculator input[type="button"] {
16   width: 40px;
17   height: 40px;
18   margin: 5px;
19   padding: 0;
20   border: 1px solid #ccc;
21   border-radius: 5px;
22   background-color: #61dafb;
23   color: #20232a;
24   cursor: pointer;
25   font-size: 18px;
26 }
```

A screenshot of the Visual Studio Code editor. The Explorer sidebar on the left shows a project named 'MAIN FLOW ITERNSHIP' with files: calculator.css, calculator.html, calculator.js, shopping.css, shopping.html, todolist.css, todolist.html, todolist.js, and validation.js. The main editor area displays 'calculator.css' with the following CSS code:

```
15 .calculator input[type="button"] {
16   border: 1px solid #ccc;
17   border-radius: 5px;
18   background-color: #61dafb;
19   color: #20232a;
20   cursor: pointer;
21   font-size: 18px;
22 }
23 .calculator input[type="text"] {
24   width: calc(100% - 10px);
25   margin-bottom: 10px;
26   padding: 10px;
27   border: 1px solid #ccc;
28   border-radius: 5px;
29   box-sizing: border-box;
30   font-size: 18px;
31   background-color: #61dafb;
32   color: #20232a;
33 }
34 .calculator input[type="button"].operator {
35   background-color: #61dafb;
36   color: #fff;
37 }
38 .calculator input[type="button"].operator:hover {
39   background-color: #61dafb;
40 }
41 .calculator input[type="button"]:hover {
42   background-color: #5bc0de;
43 }
```

## Calculator.js

A screenshot of the Visual Studio Code editor showing 'calculator.js'. The Explorer sidebar is the same as the previous image. The main editor area displays the JavaScript code for the calculator:

```
1 function addToDisplay(value) {
2   const display = document.getElementById('display');
3   if (value === '.' && display.value.includes('.')) return;
4   if (!['/', '*', '-', '+', '%'].includes(value) && display.value === '') return;
5   display.value += value;
6 }
7 function clearDisplay() {
8   document.getElementById('display').value = '';
9 }
10 function backspace() {
11   const display = document.getElementById('display');
12   display.value = display.value.slice(0, -1);
13 }
14 function calculate() {
15   const display = document.getElementById('display');
16   try {
17     const result = eval(display.value);
18     display.value = result;
19   } catch (error) {
20     display.value = 'Error';
21   }
22 }
23 document.addEventListener('keydown', function(event) {
24   const validKeys = '0123456789/*-+.%()';
25   if (validKeys.includes(event.key)) {
26     addToDisplay(event.key);
27   } else if (event.key === 'Enter') {
28     calculate();
29   } else if (event.key === 'Backspace') {
30     backspace();
31   }
32 });
```

Output:

