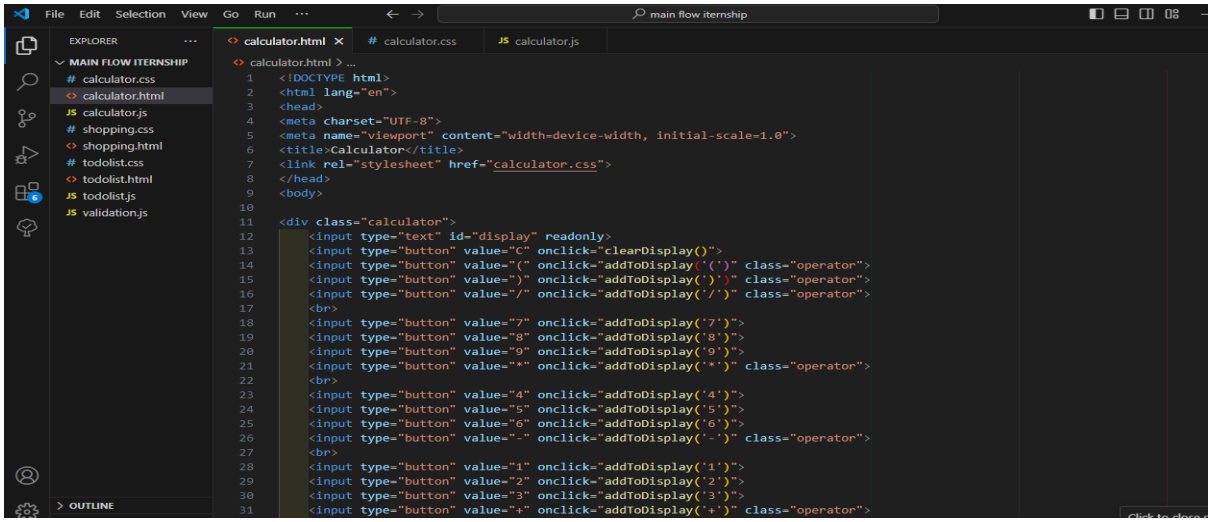
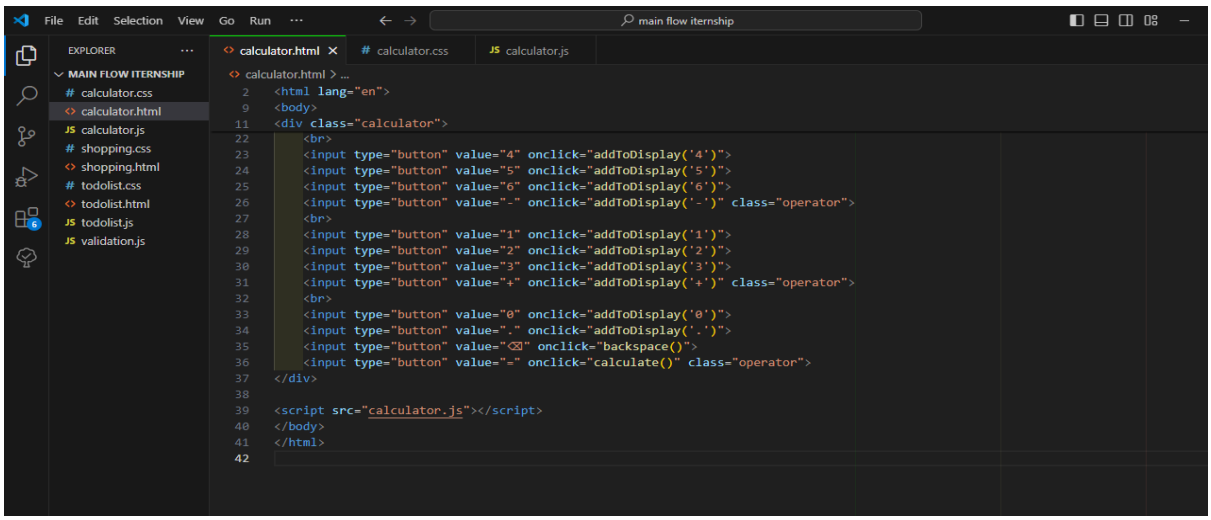
TASK-5

Calculator.html

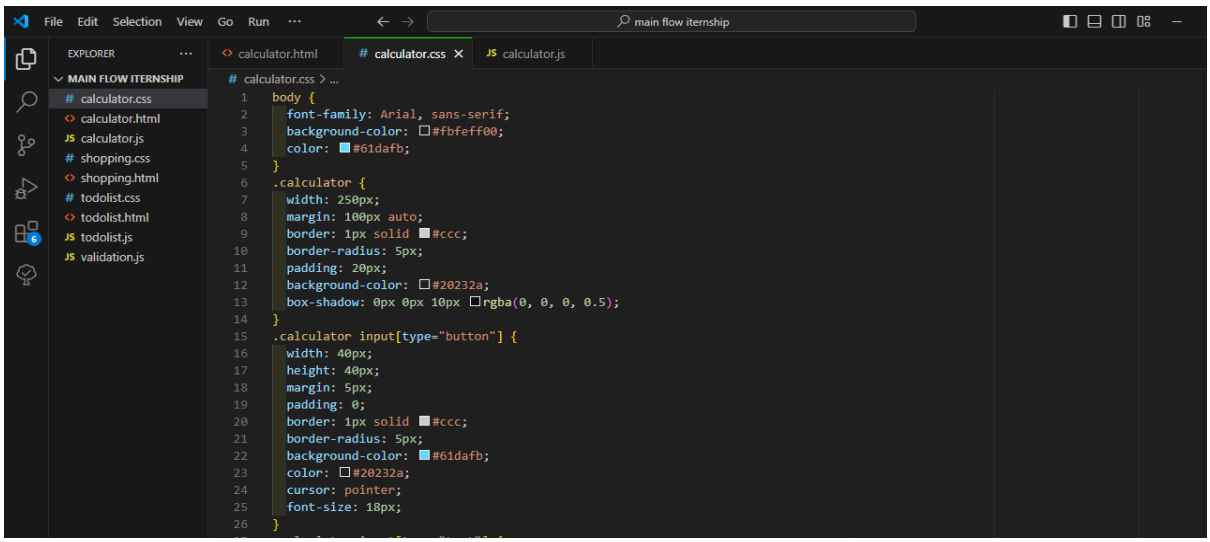


```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Calculator</title>
<link rel="stylesheet" href="calculator.css">
</head>
<body>

<div class="calculator">
    <input type="text" id="display" readonly>
    <input type="button" value="C" onclick="clearDisplay()">
    <input type="button" value="(" onclick="addToDisplay('(')" class="operator">
    <input type="button" value=")" onclick="addToDisplay(')')" class="operator">
    <input type="button" value="/" onclick="addToDisplay('/')" class="operator">
    <br>
    <input type="button" value="7" onclick="addToDisplay('7')">
    <input type="button" value="8" onclick="addToDisplay('8')">
    <input type="button" value="9" onclick="addToDisplay('9')">
    <input type="button" value="*" onclick="addToDisplay('*')" class="operator">
    <br>
    <input type="button" value="4" onclick="addToDisplay('4')">
    <input type="button" value="5" onclick="addToDisplay('5')">
    <input type="button" value="6" onclick="addToDisplay('6')">
    <input type="button" value="-" onclick="addToDisplay('-')" class="operator">
    <br>
    <input type="button" value="1" onclick="addToDisplay('1')">
    <input type="button" value="2" onclick="addToDisplay('2')">
    <input type="button" value="3" onclick="addToDisplay('3')">
    <input type="button" value="+" onclick="addToDisplay('+')" class="operator">
```

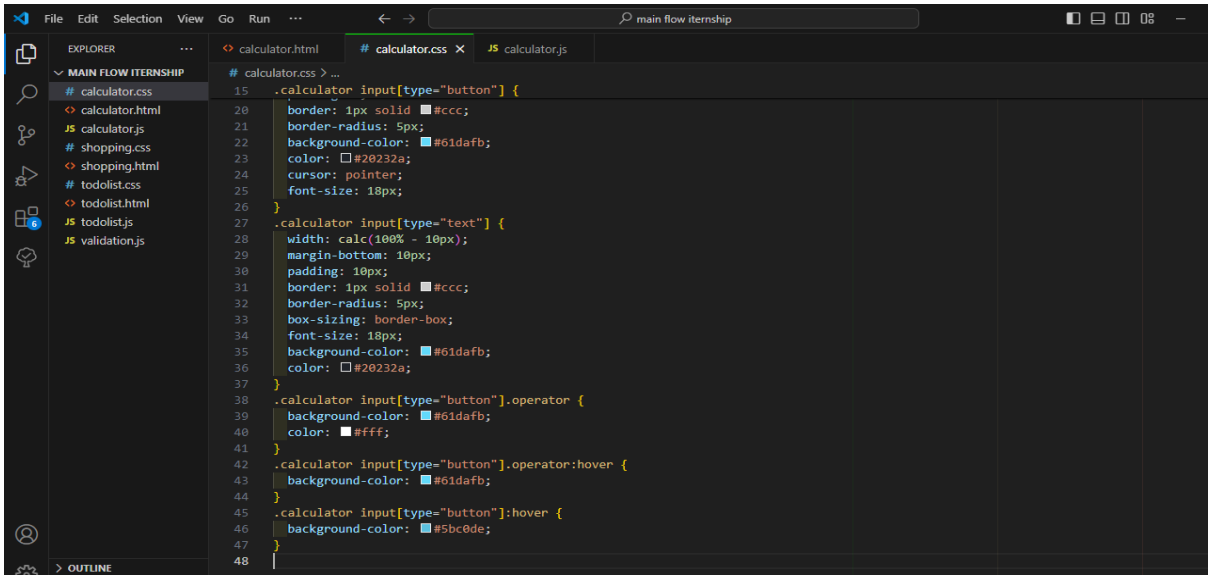


```
<html lang="en">
<body>
<div class="calculator">
    <br>
    <input type="button" value="4" onclick="addToDisplay('4')">
    <input type="button" value="5" onclick="addToDisplay('5')">
    <input type="button" value="6" onclick="addToDisplay('6')">
    <input type="button" value="-" onclick="addToDisplay('-')" class="operator">
    <br>
    <input type="button" value="1" onclick="addToDisplay('1')">
    <input type="button" value="2" onclick="addToDisplay('2')">
    <input type="button" value="3" onclick="addToDisplay('3')">
    <input type="button" value="+" onclick="addToDisplay('+')" class="operator">
    <br>
    <input type="button" value="0" onclick="addToDisplay('0')">
    <input type="button" value="." onclick="addToDisplay('.')">
    <input type="button" value="⌫" onclick="backspace()">
    <input type="button" value="=" onclick="calculate()" class="operator">
</div>

<script src="calculator.js"></script>
</body>
</html>
```

Calculator.css

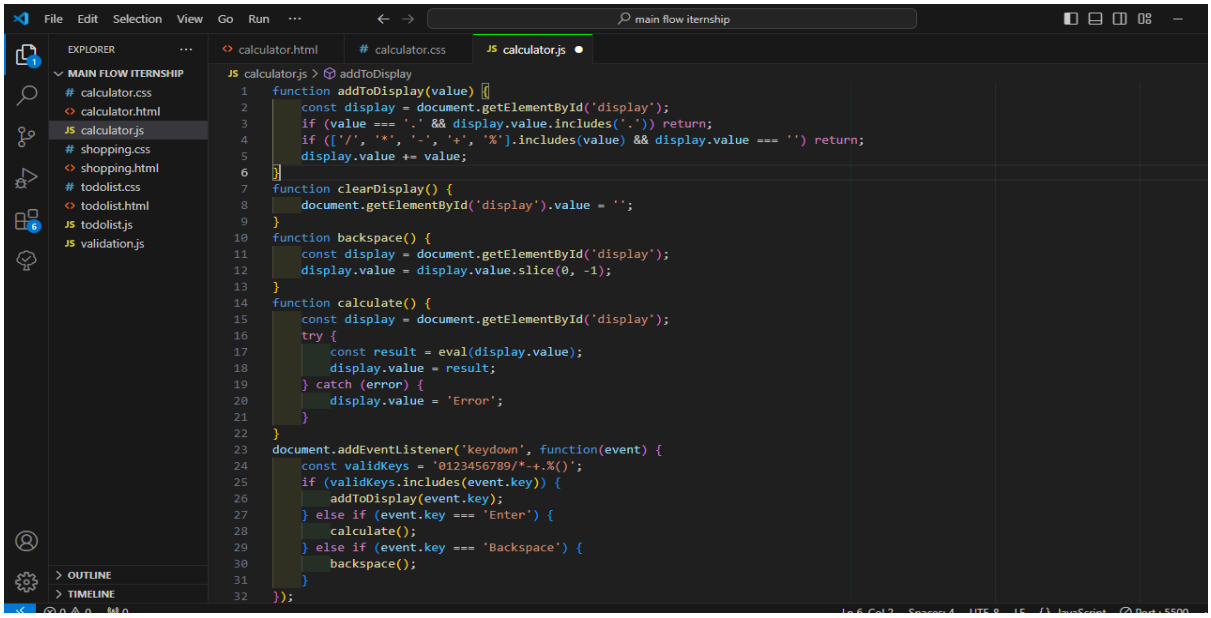


```
body {
  font-family: Arial, sans-serif;
  background-color: #fbfeff00;
  color: #61dafb;
}
.calculator {
  width: 250px;
  margin: 100px auto;
  border: 1px solid #ccc;
  border-radius: 5px;
  padding: 20px;
  background-color: #20232a;
  box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.5);
}
.calculator input[type="button"] {
  width: 40px;
  height: 40px;
  margin: 5px;
  padding: 0;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #61dafb;
  color: #20232a;
  cursor: pointer;
  font-size: 18px;
}
```



```
.calculator input[type="button"] {
    border: 1px solid #ccc;
    border-radius: 5px;
    background-color: #61dafb;
    color: #20232a;
    cursor: pointer;
    font-size: 18px;
}
.calculator input[type="text"] {
    width: calc(100% - 10px);
    margin-bottom: 10px;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
    box-sizing: border-box;
    font-size: 18px;
    background-color: #61dafb;
    color: #20232a;
}
.calculator input[type="button"].operator {
    background-color: #61dafb;
    color: #fff;
}
.calculator input[type="button"].operator:hover {
    background-color: #61dafb;
}
.calculator input[type="button"]:hover {
    background-color: #5bc0de;
}
```

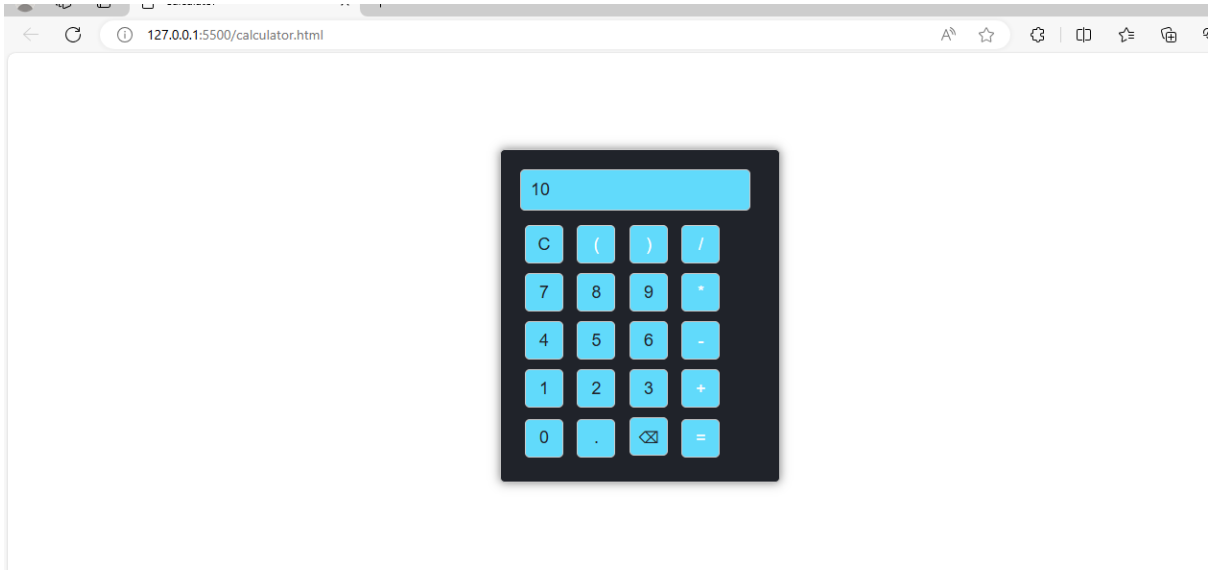
Calculator.jss



```
function addToDisplay(value) {
    const display = document.getElementById('display');
    if (value === '.' && display.value.includes('.')) return;
    if (['/', '*', '-', '+', '%'].includes(value) && display.value === '') return;
    display.value += value;
}
function clearDisplay() {
    document.getElementById('display').value = '';
}
function backspace() {
    const display = document.getElementById('display');
    display.value = display.value.slice(0, -1);
}
function calculate() {
    const display = document.getElementById('display');
    try {
        const result = eval(display.value);
        display.value = result;
    } catch (error) {
        display.value = 'Error';
    }
}
document.addEventListener('keydown', function(event) {
    const validKeys = '0123456789/*-+.%()';
    if (validKeys.includes(event.key)) {
        addToDisplay(event.key);
    } else if (event.key === 'Enter') {
        calculate();
    } else if (event.key === 'Backspace') {
        backspace();
    }
});
```

Output:

127.0.0.1:5500/calculator.html
5*2
C ( ) /
7 8 9 *
4 5 6 -
1 2 3 +
0 . ⌫ =


127.0.0.1:5500/calculator.html
10
C ( ) /
7 8 9 *
4 5 6 -
1 2 3 +
0 . ⌫ =