

Github URL

W01-P1: 取得畫面輸入，4 個按鈕，兩個輸出，共 7 個，透過 console.log 印出

The screenshot displays a web development environment with two main panes. The left pane shows the source code for an application named 'arithmetic-starter' in Visual Studio Code. The right pane shows the browser preview of the application, titled 'The Unconventional Calculator', with its DevTools console open.

JavaScript Code (app.js):

```
1 const userInput = document.querySelector('#input-number');
2 const addBtn = document.querySelector('#btn-add');
3 const subtractBtn = document.querySelector('#btn-subtract');
4 const multiplyBtn = document.querySelector('#btn-multiply');
5 const divideBtn = document.querySelector('#btn-divide');
6
7 const calculation = document.querySelector('#current-calculation');
8 const result = document.querySelector('#current-result');
9
10 console.log('userInput', userInput);
11 console.log('addBtn', addBtn);
12 console.log('subtractBtn', subtractBtn);
13 console.log('multiplyBtn', multiplyBtn);
14 console.log('divideBtn', divideBtn);
15
16 console.log('calculation', calculation);
17 console.log('result', result);
```

Browser Preview (The Unconventional Calculator):

The browser preview shows a web page titled 'The Unconventional Calculator'. It features a text input field at the top, followed by four buttons: '+', '-', '*', and '/'. Below these buttons is a large display showing the number '0' and the text 'Result: 0'.

DevTools Console:

The DevTools console shows the output of the console.log statements in the JavaScript code. The output is as follows:

- userInput: <input type="number" id="input-number"> app.js:10
- addBtn: <button type="button" id="btn-add">+</button> app.js:11
- subtractBtn: <button type="button" id="btn-subtract">-</button> app.js:12
- multiplyBtn: <button type="button" id="btn-multiply">*</button> app.js:13
- divideBtn: <button type="button" id="btn-divide">/</button> app.js:14
- calculation: <h2 id="current-calculation">0</h2> app.js:16
- result: 0 app.js:17

W01-P2: 能做加法計算 operand1 + operand2

The screenshot shows the development environment for 'The Unconventional Calculator'. On the left, the VS Code editor displays the JavaScript code for the addition functionality. The code defines a default result, a function to parse user input, and an 'add' function that calculates the sum of the current result and the user input. On the right, the web browser shows the application running at 127.0.0.1:5500. The calculator interface displays '10' in the input field, the '+' button is selected, and the calculation '5 + 10 = 15' is shown in the output area. The DevTools console shows the log output for the addition operation.

```
18 // const buttons = document.querySelectorAll('button');
19 // console.log('buttons', buttons);
20
21
22 const defaultResult = 0;
23 let currentResult = defaultResult;
24
25
26 function getUserInput() {
27   return parseInt(userInput.value);
28 }
29
30 function outputResult(result, text){
31   currentResultOutput.textContent = result;
32   currentCalculationOutput.textContent = text;
33 }
34
35 // operand1 operator operand2 0 + 5
36 function add() {
37   const operand1 = currentResult;
38   const operand2 = getUserInput();
39   currentResult = operand1 + operand2;
40   console.log(`${operand1} + ${operand2} = ${currentResult}`, );
41   const calcText = `${operand1} + ${operand2}`;
42   outputResult(currentResult, calcText);
43 }
44
45 addBtn.addEventListener('click', add);
```

The browser interface shows the calculator with the input field containing '10', the '+' button selected, and the output area displaying '5 + 10 = 15'.

W01-P3: 能做減法計算 operand1 - operand2

The screenshot shows the development environment for 'The Unconventional Calculator' with subtraction functionality. On the left, the VS Code editor displays the JavaScript code for the subtraction functionality. The code defines a default result, a function to parse user input, and a 'subtract' function that calculates the difference between the current result and the user input. On the right, the web browser shows the application running at 127.0.0.1:5500. The calculator interface displays '10' in the input field, the '-' button is selected, and the calculation '-5 - 10 = -15' is shown in the output area. The DevTools console shows the log output for the subtraction operation.

```
34 // operand1 operator operand2 0 + 5
35 function add() {
36   const operand1 = currentResult;
37   const operand2 = getUserInput();
38   currentResult = operand1 + operand2;
39   console.log(`${operand1} + ${operand2} = ${currentResult}`, );
40   const calcText = `${operand1} + ${operand2}`;
41   outputResult(currentResult, calcText);
42 }
43
44 addBtn.addEventListener('click', add);
45
46 // operand1 operator operand2 0 - 5
47 function subtract() {
48   const operand1 = currentResult;
49   const operand2 = getUserInput();
50   currentResult = operand1 - operand2;
51   console.log(`${operand1} - ${operand2} = ${currentResult}`, );
52   const calcText = `${operand1} - ${operand2}`;
53   outputResult(currentResult, calcText);
54 }
55
56 subtractBtn.addEventListener('click', subtract);
57
58 // operand1 operator operand2 0 * 5
59 function multiply() {
60   const operand1 = currentResult;
61   const operand2 = getUserInput();
62   currentResult = operand1 * operand2;
63   console.log(`${operand1} * ${operand2} = ${currentResult}`, );
64   const calcText = `${operand1} * ${operand2}`;
65   outputResult(currentResult, calcText);
66 }
67
68 multiplyBtn.addEventListener('click', multiply);
69
70 // operand1 operator operand2 0 / 5
```

The browser interface shows the calculator with the input field containing '10', the '-' button selected, and the output area displaying '-5 - 10 = -15'.

W01-P4: 能做乘法計算 operand1 * operand2

The screenshot displays the development environment for 'The Unconventional Calculator'. On the left, the VS Code editor shows the `app.js` file with the `multiply` function highlighted in a red box. The function takes `operand1` and `operand2` as inputs, calculates their product, and updates the `currentResult` and `calcText`. The right side shows the browser at `127.0.0.1:5500/arithmetric-starter/index.html`. The calculator interface has a display showing '10', a row of buttons including '+', '-', '*', and '/', and a result area showing '25 * 10' and 'Result: 250'. The Chrome DevTools console on the far right shows the execution of the `multiply` function, with the calculation `25 * 10 = 250` logged.

W01-P5: 能做除法計算 operand1 / operand2

This screenshot shows the same development environment as the previous one, but with the division functionality implemented. In the VS Code editor, the `divide` function is highlighted in a red box. It follows a similar pattern to the `multiply` function but uses the division operator. The browser view shows the calculator interface with the display at '10', the division button '/' selected, and the result area showing '1 / 10' and 'Result: 0.1'. The Chrome DevTools console shows the `divide` function being called, with the calculation `1 / 10 = 0.1` logged.

W01-P6: 能做四則計算，加減乘除都要執行一遍，可任意順序，結果要正確

The Unconventional Calculator

20

+

-

*

/

-75 / 20

Result: -3.75

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ElementsConsole

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Default levels1 issue

0 + 5 = 5

5 - 10 = -5

-5 * 15 = -75

-75 / 20 = -3.75

app.js:40

app.js:52

app.js:64

app.js:76