

## 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 image shows a development environment with VS Code on the left and a web browser on the right. In VS Code, the `app.js` file contains the following JavaScript code:

```
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 currentResultOutput = document.querySelector('#current-result');
8 const currentCalculationOutput = document.querySelector('#current-calc');
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('currentResultOutput', currentResultOutput);
17 console.log('currentCalculationOutput', currentCalculationOutput);
```

The web browser displays the title "The Unconventional Calculator". The interface includes a text input field, four buttons labeled "+", "-", "\*", and "/", and two output areas. The first output area shows "0" and the second shows "Result: 0". The browser's DevTools console shows the output of the `console.log` statements, listing the DOM elements for the input, buttons, and output containers.

## W01-P2: 能做加法計算 operand1 + operand2

The image shows the same development environment as before, but now the calculator is performing an addition. In VS Code, the `app.js` file has been updated with the following code:

```
14 // console.log('divideBtn', divideBtn);
15
16 // console.log('currentResultOutput', currentResultOutput);
17 // console.log('currentCalculationOutput', currentCalculationOutput);
18
19 // const buttons = document.querySelectorAll('button');
20 // console.log('buttons', buttons);
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 web browser shows the calculator interface with the input field containing "10". The buttons "+", "-", "\*", and "/" are visible. The first output area now shows "5 + 10" and the second shows "Result: 15". The browser's DevTools console shows the output of the `console.log` statement, displaying the calculation: `0 + 5 = 5` and `5 + 10 = 15`.

## W01-P3: 能做減法計算 operand1 - operand2

**W01-P4: 能做乘法計算  $\text{operand1} * \text{operand2}$**

**W01-P5: 能做除法計算  $\text{operand1} / \text{operand2}$**

**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**