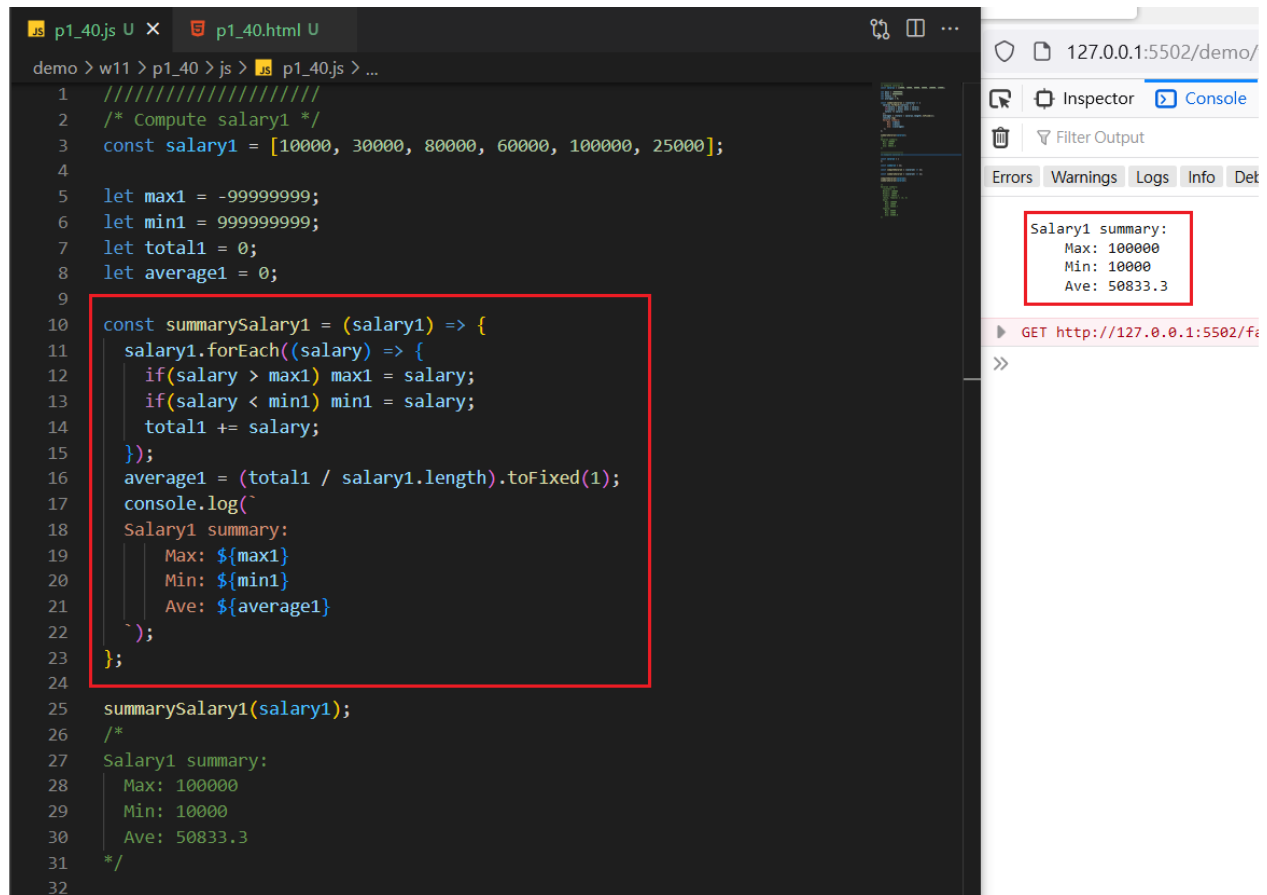


P1-1: Compute salary1



```
demo > w11 > p1_40 > js > p1_40.js > ...
1  //////////////////////////////////////////////////
2  /* Compute salary1 */
3  const salary1 = [10000, 30000, 80000, 60000, 100000, 25000];
4
5  let max1 = -99999999;
6  let min1 = 99999999;
7  let total1 = 0;
8  let average1 = 0;
9
10 const summarySalary1 = (salary1) => {
11   salary1.forEach((salary) => {
12     if(salary > max1) max1 = salary;
13     if(salary < min1) min1 = salary;
14     total1 += salary;
15   });
16   average1 = (total1 / salary1.length).toFixed(1);
17   console.log(`
18   Salary1 summary:
19   |   Max: ${max1}
20   |   Min: ${min1}
21   |   Ave: ${average1}
22   `);
23 };
24
25 summarySalary1(salary1);
26
27 /*
28 | Salary1 summary:
29 |   Max: 100000
30 |   Min: 10000
31 |   Ave: 50833.3
32 */
```

Inspector Console

Filter Output

Errors Warnings Logs Info Det

Salary1 summary:
Max: 100000
Min: 10000
Ave: 50833.3

GET http://127.0.0.1:5502/f...

P1-2: Compute salary5

The image shows the implementation of a function `computeSalary2` in VS Code and its output in Chrome DevTools.

```
const computeSalary2 = (salary2) => {
  salary2.forEach((person) => {
    const {name, sex, age, salary} = person;
    summary2.countAll++;
    if(salary > summary2.maxAll) summary2.maxAll = salary;
    if(salary < summary2.minAll) summary2.minAll = salary;
    summary2.totalAll += salary;
    if(sex === 'male') {
      summary2.male.count++;
      if(salary > summary2.male.max) summary2.male.max = salary;
      if(salary < summary2.male.min) summary2.male.min = salary;
      summary2.male.total += salary;
    } else if(sex === 'female'){
      summary2.female.count++;
      if(salary > summary2.female.max) summary2.female.max = salary;
      if(salary < summary2.female.min) summary2.female.min = salary;
      summary2.female.total += salary;
    }
  });
  summary2.averageAll = (summary2.totalAll / summary2.countAll).toFixed(1);
  summary2.male.average = (summary2.male.total / summary2.male.count).toFixed(1);
  summary2.female.average = (summary2.female.total / summary2.female.count).toFixed(1);
};

const summarySalary2 = (salary2) => {
  console.log(`
Salary2 Summary:
CountAll: ${summary2.countAll}
MaxAll: ${summary2.maxAll}
MinAll: ${summary2.minAll}
AveAll: ${summary2.averageAll}
(male, female) = (${summary2.male.count}, ${summary2.female.count})
male
  Max: ${summary2.male.max}
  Min: ${summary2.male.min}
  Ave: ${summary2.male.average}
female
  Max: ${summary2.female.max}
  Min: ${summary2.female.min}
  Ave: ${summary2.female.average}
`);
};
```

Chrome DevTools Console Output:

```
Salary2 Summary:
CountAll: 6
MaxAll: 100000
MinAll: 10000
AveAll: 50833.3
(male, female) = (3, 3)
male
  Max: 100000
  Min: 10000
  Ave: 46666.7
female
  Max: 80000
  Min: 25000
  Ave: 55000.0
```

P1-3: Show p1_40.md in p1_md_40.html

The image shows the integration of `p1_40.md` into `p1_md_40.html` in VS Code and its rendering in Chrome DevTools.

VS Code: The `p1_md_40.html` file is shown with the following code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <script src="https://cdn.jsdelivr.net/gh/zerodevx/zero-md@1.10.0/dist/zero-md.min.js"></script>
  <style>
    .md-container {
      width: 85%;
      height: 100%;
      margin: 3rem auto;
    }
  </style>
  <div class="md-container">
    <zero-md src="./p1_40.md"></zero-md>
  </div>
  <script src="./js/p1_40.js"></script>
</body>
</html>
```

Chrome DevTools: The browser shows the rendered page with the title "Midterm - P1". The console shows the output of the `computeSalary2` function, which is the same as in the previous screenshot.

A toast notification at the bottom right says: "剪取與繪圖 儲存到剪貼簿的剪取 在這裡選取來標記及分享影像".

P2-1: BMI Calculation

```
demo > w11 > p2_40 > p2_40.js > calculateBMI
12
13 function bmi_normal_high(height) {
14   return 24 * (height/100) * (height/100);
15 }
16
17 function calculateBMI() {
18   const weight = Number(document.querySelector("#weight").value);
19   const height = Number(document.querySelector("#height").value);
20   // console.log(weight, height);
21   const bmi = bmiCalc_40(height, weight);
22   const normal_low = bmi_normal_low(height);
23   const normal_high = bmi_normal_high(height);
24
25   let status;
26   let suggestion;
27
28   if(bmi < 18.5){
29     status = 'underweight'
30     suggestion = `add at least ${((normal_low - weight).toFixed(1))} kg to normal.`
31   } else if (bmi <= 24) {
32     status = 'normal';
33     suggestion = ``;
34   } else {
35     status = 'Overweight';
36     suggestion = `reduce at least ${((weight - normal_high).toFixed(1))} kg to normal.`
37   }
38
39   bmiResult.innerHTML = `Your BMI is ${bmi.toFixed(1)}. ${status}.`
40   suggest.innerHTML = `${suggestion}`
41 };
42
43 calculateBtn.addEventListener('click', calculateBMI);
44
45
```

BMI Calculator

Yuwen Zheng, 211410740

Weight (kg):

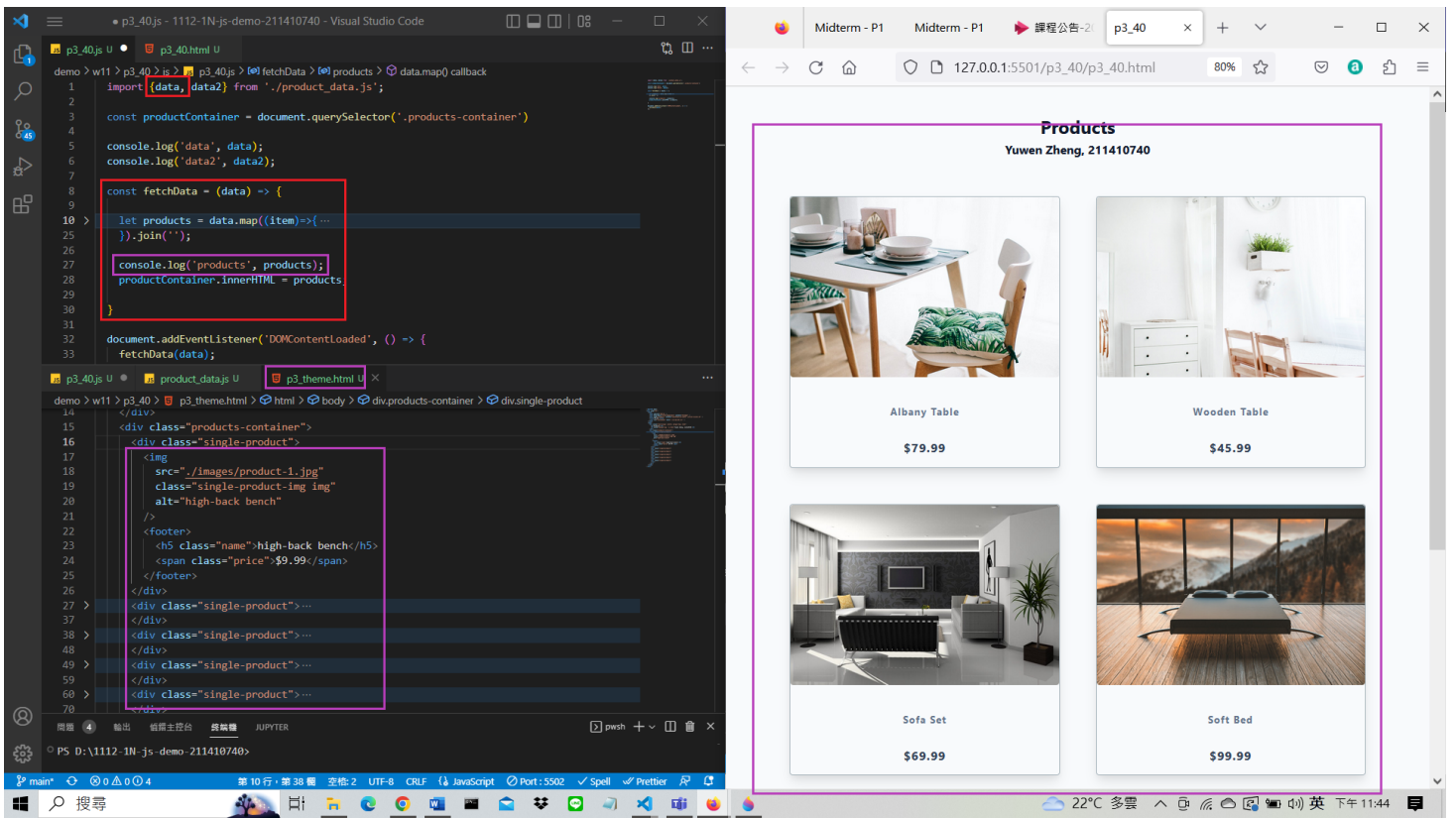
Height (cm):

Your BMI is 27.8. Overweight.

reduce at least 11.5 kg to normal.

P3: Fetch Products from json array

```
JS p3_40.js U x p3_40.html U p3_theme.html U
demo > w11 > p3_40 > js > p3_40.js > ...
1 import {data, data2} from './product_data.js';
2
3 const productContainer = document.querySelector('.products-container')
4
JS p3_40.js U JS product_data.js U x
demo > w11 > p3_40 > js > product_data.js > data
1 export const data = [
2   {
3     id: 1,
4     name: 'albany table',
5     price: '$79.99',
6     local_img: './images/product-2.jpg'
7   },
8   { ...
13   },
14   { ...
19   },
20   { ...
25   },
26   { ...
31   },
32   {
33     id: 6,
34     name: 'soft sofa',
35     price: '$85.99',
36     local_img: './images/product-12.jpg'
37   },
38 ]
39
40 export const data2 = [];
41
42 // export default data;
```



P4: Use menu to show P1, P2, P3

