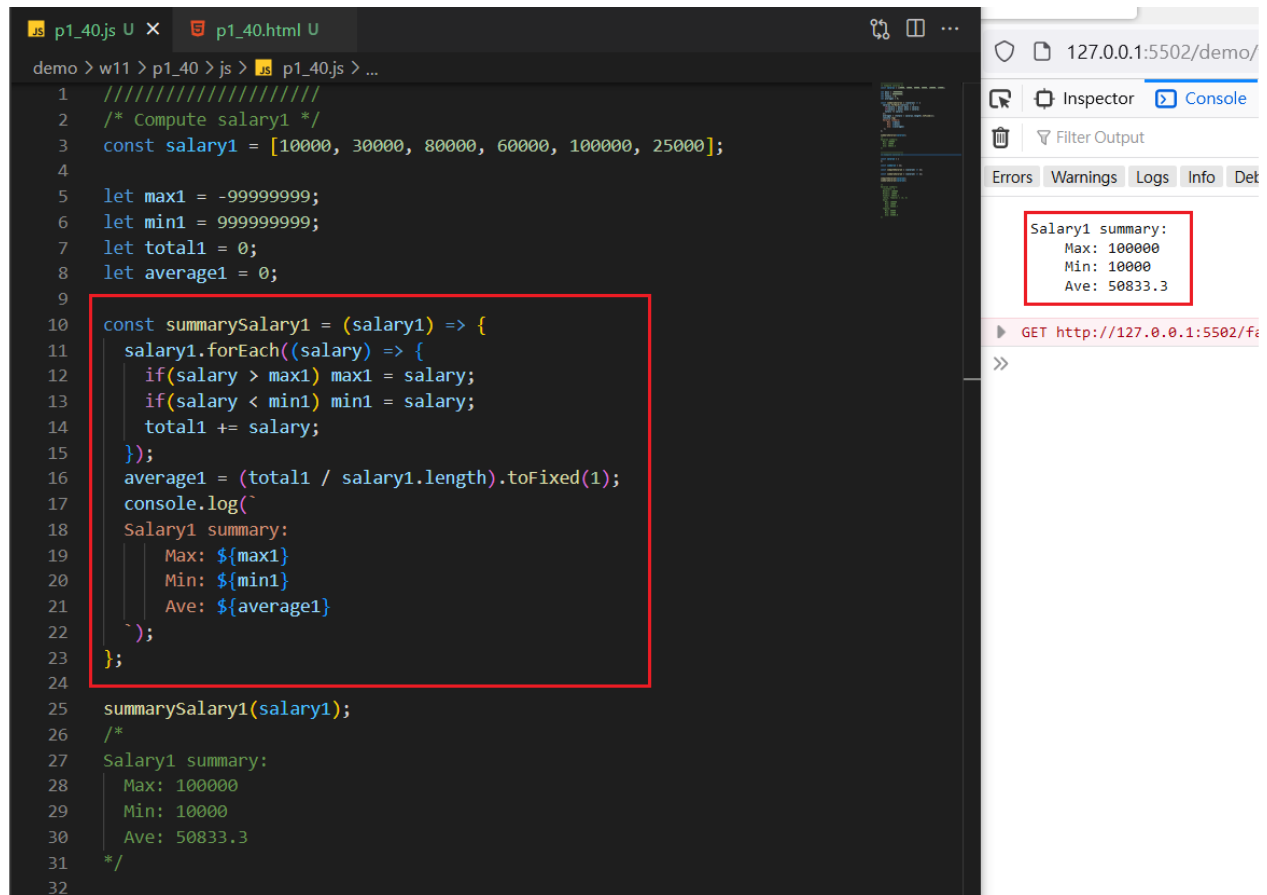


P1-1: Compute salary1



The image shows a web browser window on the right and a code editor on the left. The browser's address bar shows the URL `127.0.0.1:5502/demo/`. The browser's developer tools are open, showing the Console tab with a log entry: `Salary1 summary: Max: 100000 Min: 10000 Ave: 50833.3`. The code editor shows a JavaScript file `p1_40.js` with the following code:

```
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 */
```

P1-2: Compute salary5

```
demo > w11 > p1_40 > js > p1_40.js > computeSalary2 > salary2.forEach() callback
```

```
97 const computeSalary2 = (salary2) => {
98   salary2.forEach((person) => {
99     const {name, sex, age, salary} = person;
100     summary2.countAll++;
101     if(salary > summary2.maxAll) summary2.maxAll = salary;
102     if(salary < summary2.minAll) summary2.minAll = salary;
103     summary2.totalAll += salary;
104     if(sex === 'male') {
105       summary2.male.count++;
106       if(salary > summary2.male.max) summary2.male.max = salary;
107       if(salary < summary2.male.min) summary2.male.min = salary;
108       summary2.male.total += salary;
109     } else if(sex === 'female'){
110       summary2.female.count++;
111       if(salary > summary2.female.max) summary2.female.max = salary;
112       if(salary < summary2.female.min) summary2.female.min = salary;
113       summary2.female.total += salary;
114     }
115   });
116   summary2.averageAll = (summary2.totalAll / summary2.countAll).toFixed(1);
117   summary2.male.average = (summary2.male.total / summary2.male.count).toFixed(1);
118   summary2.female.average = (summary2.female.total / summary2.female.count).toFixed(1);
119 };

121 const summarySalary2 = (salary2) => {
122   console.log(`
123   Salary2 Summary:
124   CountAll: ${summary2.countAll}
125   MaxAll: ${summary2.maxAll}
126   MinAll: ${summary2.minAll}
127   AveAll: ${summary2.averageAll}
128   (male, female) = (${summary2.male.count}, ${summary2.female.count})
129   male
130     Max: ${summary2.male.max}
131     Min: ${summary2.male.min}
132     Ave: ${summary2.male.average}
133   female
134     Max: ${summary2.female.max}
135     Min: ${summary2.female.min}
136     Ave: ${summary2.female.average}
137 `);
138 }
```

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

GET http://127.0.0.1:5502/favicon.ico

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

```
p1_md_40.html - 1112-1N-js-demo-211410740 - Visual Studio Code
```

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <script src="https://cdn.jsdelivr.net/gh/zerodevx/zero-md@1.10.0/dist/zero-md.min.js"></script>
8   <style>
9     .md-container {
10       width: 85%;
11       height: 100%;
12       margin: 3rem auto;
13     }
14   </style>
15   <div class="md-container">
16     <zero-md src="./p1_40.md"></zero-md>
17   </div>
18   <script src="./js/p1_40.js"></script>
19 </html>
```

Midterm - P1

P1-1: Compute salary1

```
demo > w11 > p1_40 > js > p1_40.js > computeSalary2 > salary2.forEach() callback
```

```
97 const computeSalary2 = (salary2) => {
98   salary2.forEach((person) => {
99     const {name, sex, age, salary} = person;
100     summary2.countAll++;
101     if(salary > summary2.maxAll) summary2.maxAll = salary;
102     if(salary < summary2.minAll) summary2.minAll = salary;
103     summary2.totalAll += salary;
104     if(sex === 'male') {
105       summary2.male.count++;
106       if(salary > summary2.male.max) summary2.male.max = salary;
107       if(salary < summary2.male.min) summary2.male.min = salary;
108       summary2.male.total += salary;
109     } else if(sex === 'female'){
110       summary2.female.count++;
111       if(salary > summary2.female.max) summary2.female.max = salary;
112       if(salary < summary2.female.min) summary2.female.min = salary;
113       summary2.female.total += salary;
114     }
115   });
116   summary2.averageAll = (summary2.totalAll / summary2.countAll).toFixed(1);
117   summary2.male.average = (summary2.male.total / summary2.male.count).toFixed(1);
118   summary2.female.average = (summary2.female.total / summary2.female.count).toFixed(1);
119 };

121 const summarySalary2 = (salary2) => {
122   console.log(`
123   Salary2 Summary:
124   CountAll: ${summary2.countAll}
125   MaxAll: ${summary2.maxAll}
126   MinAll: ${summary2.minAll}
127   AveAll: ${summary2.averageAll}
128   (male, female) = (${summary2.male.count}, ${summary2.female.count})
129   male
130     Max: ${summary2.male.max}
131     Min: ${summary2.male.min}
132     Ave: ${summary2.male.average}
133   female
134     Max: ${summary2.female.max}
135     Min: ${summary2.female.min}
136     Ave: ${summary2.female.average}
137 `);
138 }
```

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_40.js:122:11
Live reload enabled.
p1_md_40.html:53:13
ReferenceError: \$? is not defined

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):

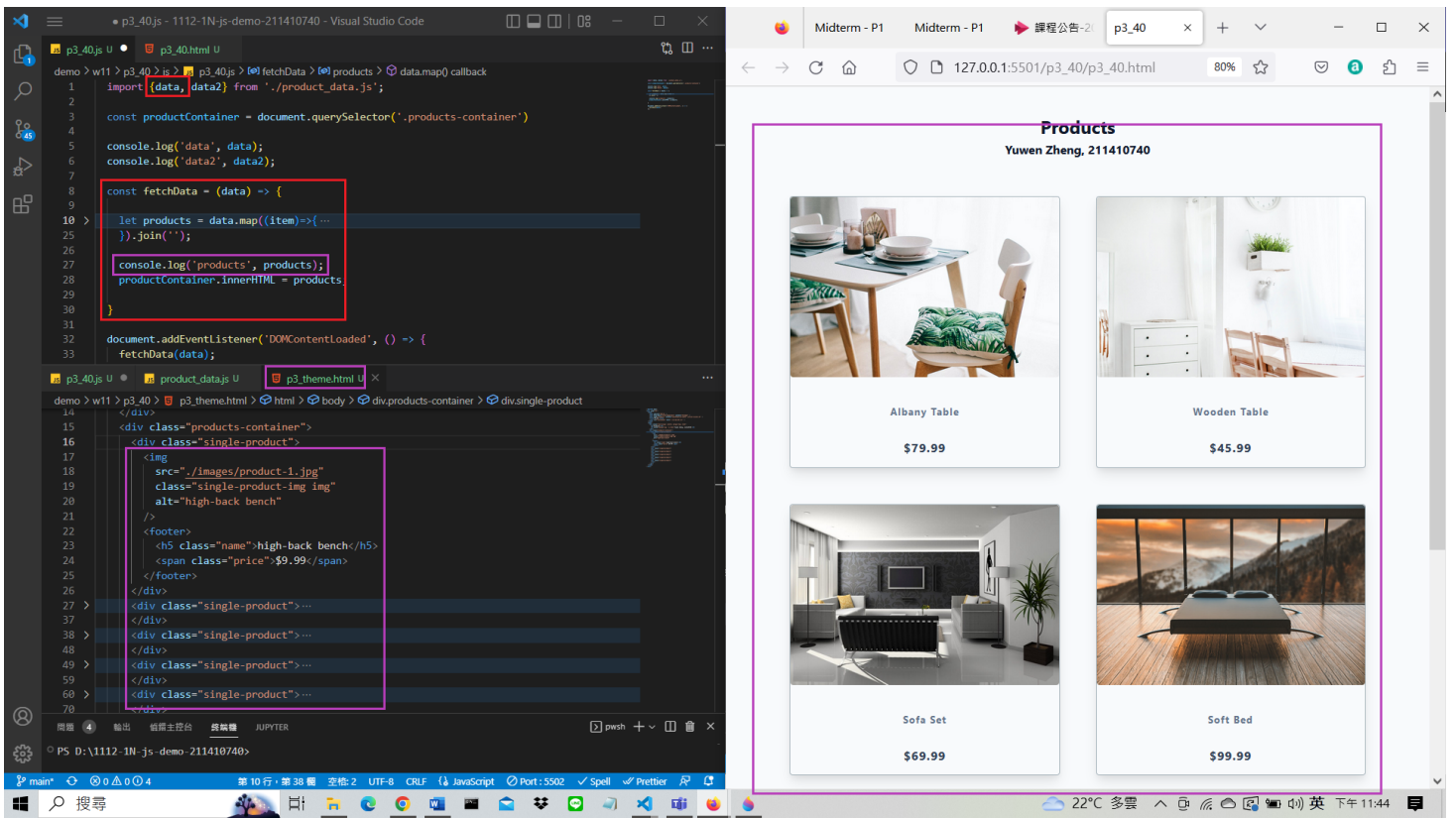
Height (cm):

Your BMI is 27.8. Overweight.

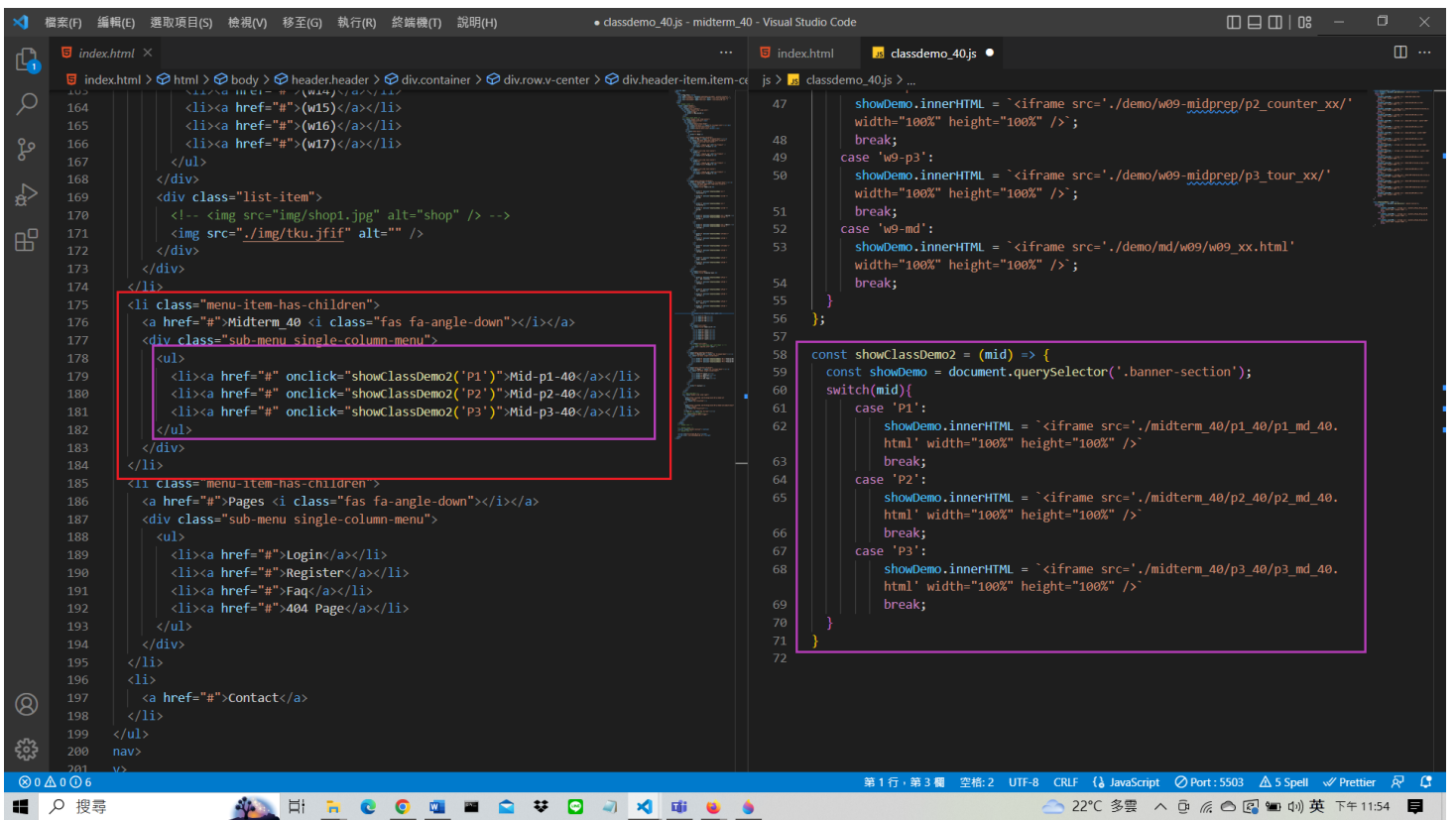
reduce at least 11.5 kg to normal.

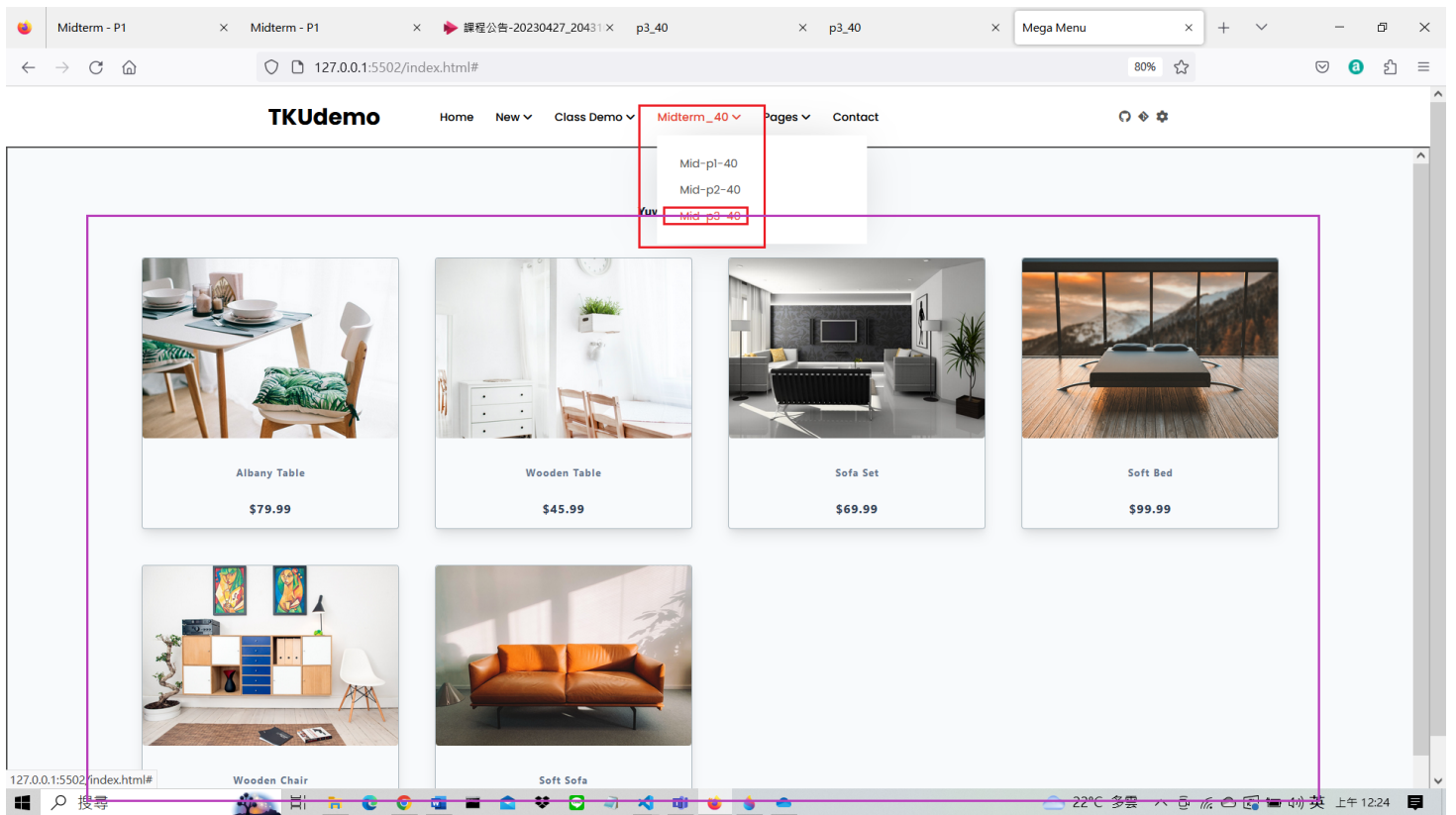
P3: Fetch Products from json array

```
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





git log

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-03-28"
946b8a4 yuwen1213      Sun Apr 30 00:26:20 2023 +0800  midterm
```