

(100%) 113-2 JavaScript 小考 1 -- 斷網考試

2025-04-10, at E201, from 18:20~21:00

Note:

1. 本次小考 1 占 2 次課堂實作，斷網，有問題可以舉手提問，同學彼此不能討論
2. 請不要發揮同學愛，作弊雙方除了本次考試 0 分外，平常分數另扣 20 分，情節嚴重者會送校。
3. iClass 上請繳交 md_xx.pdf, md_quiz1.zip, quiz1_xx.zip (所有 code 壓縮檔)，壓縮前請將 md_quiz1, demo 目錄全部砍掉
4. 請直接將答案寫在 md_quiz1/md_xx.md 上，老師出題及圖片放在 md_htc.pdf 上，請依照老師所給的圖片來實作並標註
5. 跟小考相關的檔案及目錄名稱有 xx 時，必須要改成學號後 2 碼，沒有修改時，會視違犯情況扣分。
6. 每一張圖片要有機房左側背景，圖片上要有你的學號(或後兩碼)，圖片標註要跟老師所標註的類似。違者會依情節扣分。
7. 請自評分數，將每一題的 ? 填入分數，沒有填者，不會批改，以 0 分計算。

Your (Name, ID): (?, ?)

- P0 (20%): ? 分
- P1 (20%): ? 分
- P2 (20%): ? 分
- P3 (20%): ? 分
- P4 (20%): ? 分

總分: ? 分

Note: 本次考試題目之路徑在 exams/quiz1_xx 下，p1_xx, p2_xx 有用到 tailwind css，p3_xx, p4_xx 使用正常的 css

(20%) P0: 請在根目錄之 index.html，加入 Quiz1 下拉式選單，裡面有四個項目 p1_xx, p2_xx, p3_xx, p4_xx，點選後，會顯示各題

之基本個人名字代號及學號資訊，Chrome 截圖要選到本次考試正確的路徑

=> 檔案目錄，及需要修改的檔案 (xx 要改成你的學號)

The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar displays a project structure under 'QUIZ1_XX_ANSWER'. It includes files like 'exams\quiz1_xx', 'p1_xx', 'p2_xx', 'p3_xx', 'p4_xx', 'js', 'classdemo_xx.js', 'megaMenu_xx.js', 'md_quiz1', 'scss', 'webfonts', and '.gitignore'. The 'index.html' file is selected and highlighted with a red box. In the main editor area, the code for the header navigation menu is shown, specifically the part where it generates dropdown menus for each student's profile. A large red box highlights the entire section of code from line 96 to line 121.

=> 點選 p1_xx 之 Chrome 顯示

The screenshot shows a browser window with the URL '127.0.0.1:5501/#'. The page title is 'htchung_xx'. The navigation bar includes 'HOME', 'CLASS DEMO +', 'QUIZ1 +' (highlighted with a red box), 'QUIZ2_XX', and 'FINAL_XX'. Below the navigation bar, there is a card for 'P1_xx: Simple' containing the text 'Hsingtai Chung, 12345'. The developer tools are open on the right side, with the 'Elements' tab selected. A red box highlights the 'QUIZ1 +' button in the browser's header. Another red box highlights the 'p1_xx' element in the browser's header. The 'Elements' panel shows the DOM structure, with a red box highlighting the iframe element that contains the student's profile information.

=> 點選 p2_xx 之 Chrome 顯示

P2_xx: C2F from Celsius

Hsingta Chung, 12345	p3_xx
Array Statistics for result	
10°C = 50°F	p4_xx
20°C = 68°F	
30°C = 86°F	
40°C = 104°F	
50°C = 122°F	
15°C = 59°F	
23°C = 73.4°F	
31°C = 87.8°F	

htchung_xx

HOME CLASS DEMO + QUIZ1 + QUIZ2_XX FINAL_XX

htchung_xx

127.0.0.1:5501/#

Elements Console Sources Network

```
<!DOCTYPE html>
<html lang="en"> scroll
  <head> ...
  <body wodisconnected="true">
    <span id="warning-container"> ...
    <header class="header"> ...
    <section class="show-classdemo">
      <iframe src="/exams/quiz1_xx/p2_xx/src/p2_xx.html" width="100%" height="100%"> ...
    </section>
    <script src="/js/megaMenu_xx.js"></script>
    <script src="/js/classdemo_xx.js"></script>
    <!-- Code injected by live-server -->
    <script> ...
  </body>
</html>
```

Styles Computed Layout Event Listeners DOM Breakpoints

=> 點選 p3_xx 之 Chrome 顯示

P3_xx: DOM basics, Hsingta

L1 L2 L3 M1 M2 M3 R1 R2 R3

迷江大戲1

你沒聽過“因為謀財”
There's a saying, "there are causes,

htchung_xx

HOME CLASS DEMO + QUIZ1 + QUIZ2_XX FINAL_XX

htchung_xx

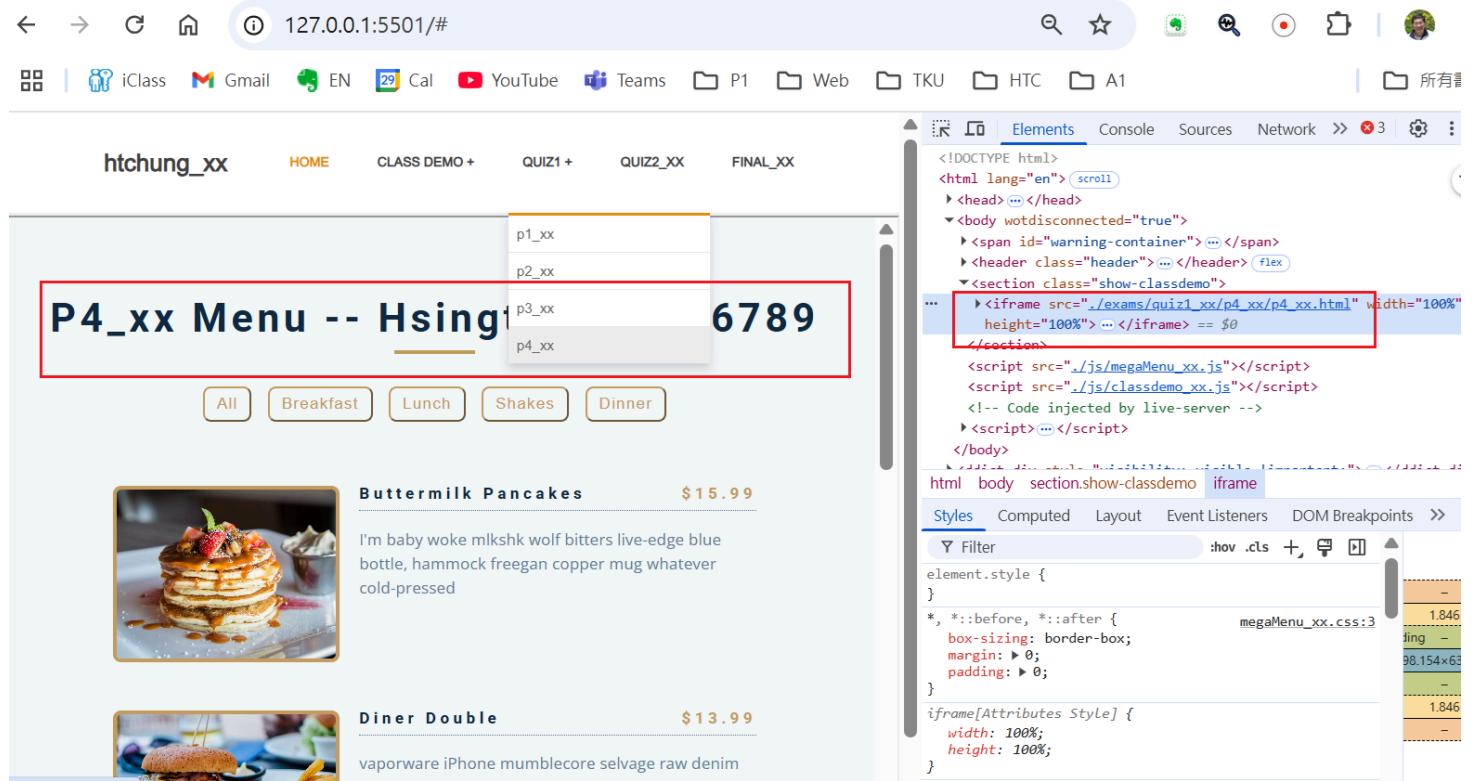
127.0.0.1:5501/#

Elements Console Sources Network

```
<!DOCTYPE html>
<html lang="en"> scroll
  <head> ...
  <body wodisconnected="true">
    <span id="warning-container"> ...
    <header class="header"> ...
    <section class="show-classdemo">
      <iframe src="/exams/quiz1_xx/p3_xx/p3_xx.html" width="100%" height="100%"> ...
    </section>
    <script src="/js/megaMenu_xx.js"></script>
    <script src="/js/classdemo_xx.js"></script>
    <!-- Code injected by live-server -->
    <script> ...
  </body>
</html>
```

Styles Computed Layout Event Listeners DOM Breakpoints

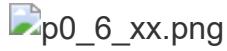
=> 點選 p4_xx 之 Chrome 顯示



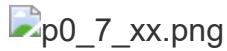
The screenshot shows a web browser window with the URL 127.0.0.1:5501/#. The page title is "htchung_xx". The main content area displays a menu titled "P4_xx Menu -- Hsing1" with a total value of 6789. Below the title are five buttons: All, Breakfast, Lunch, Shakes, and Dinner. Under "All", there are two items: "Buttermilk Pancakes" (\$15.99) and "Diner Double" (\$13.99). The "Buttermilk Pancakes" item has a small image of pancakes with syrup and fruit. The "Diner Double" item has a small image of a burger. To the right of the menu, the developer tools' Elements tab is open, showing the HTML code. A red box highlights the "iframe" tag within a section, which has the src attribute set to "/exams/quiz1_xx/p4_xx/p4_xx.html". The width of this iframe is explicitly defined as 100%.

Your Answer

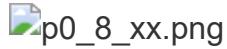
=> 檔案目錄，及需要修改的檔案 (xx 要改成你的學號)



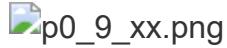
=> 點選 p1_xx 之 Chrome 顯示



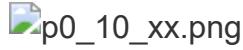
=> 點選 p2_xx 之 Chrome 顯示



=> 點選 p3_xx 之 Chrome 顯示

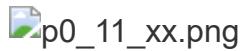


=> 點選 p4_xx 之 Chrome 顯示



=> classdemo_xx.js code 修改重點

本題需要呼叫 showQuiz1(item)，傳進的 item 是 'p1_xx' ~ 'p4_xx'



(20%) P1: 實作 p1_xx

以你學號後兩碼，取兩個攝氏溫度，本次考試老師用的學號後兩碼是 89，因此取 19, 28 兩個溫度，第 1 個數字 10~19, 第 2 個數字 20~29。

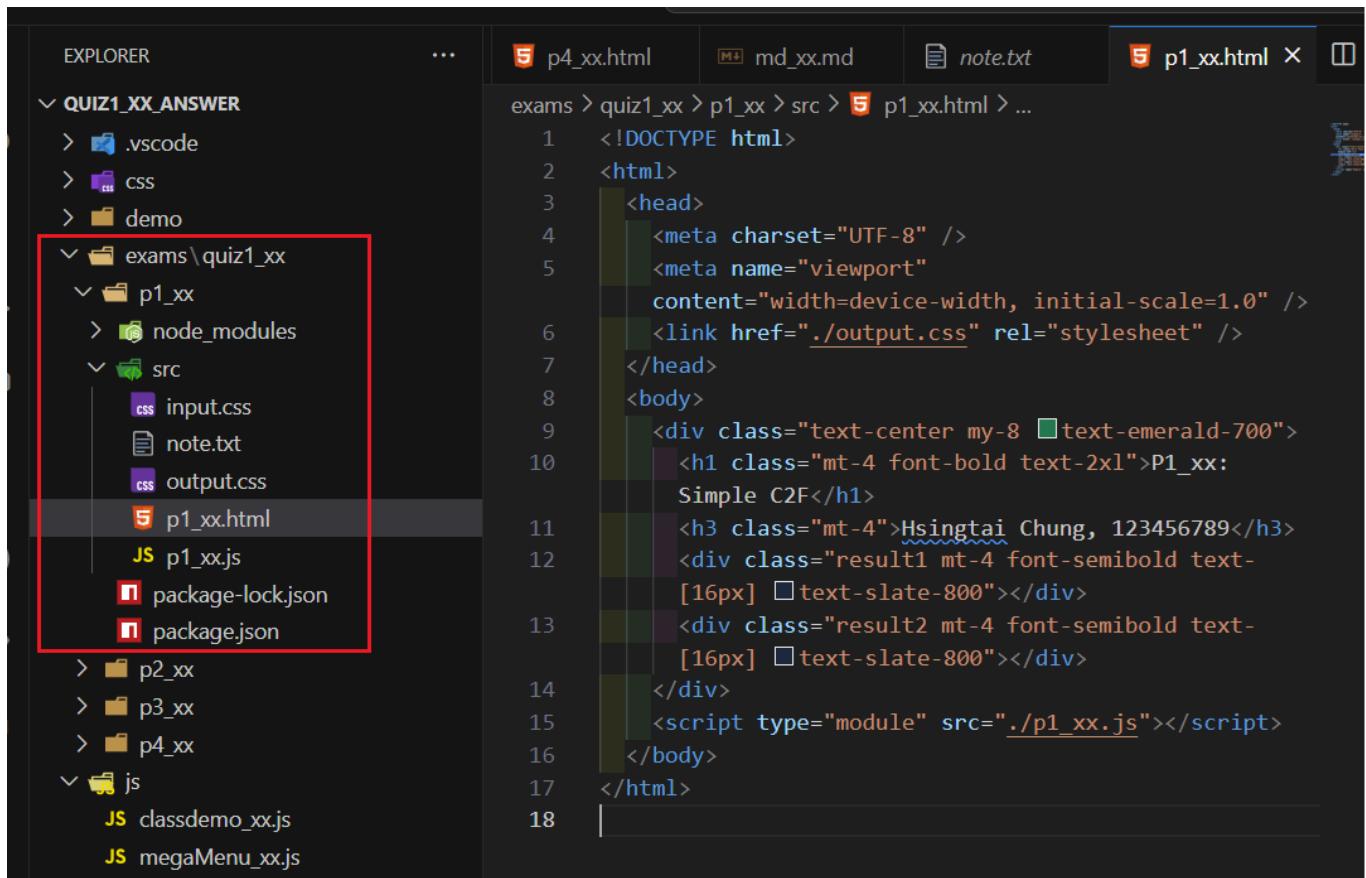
請將第 1 個數字的結果放入 result1 選擇器中，第 2 個數字的結果放入 result2 選擇器中，格式如下

19°C = 66.2°F

tailwindcss watch 指令如下，請記得要先切換到 p1_xx 目錄下，再執行

```
npx @tailwindcss/cli -i ./src/input.css -o ./src/output.css --watch
```

=> 檔案目錄 (xx 要改成你的學號)



The screenshot shows the VS Code interface with the following details:

- EXPLORER:** Shows the project structure under "QUIZ1_XX_ANSWER". The "src" folder is expanded, showing "input.css", "note.txt", "output.css", "p1_xx.html" (which is the active file), "p1_xx.js", "package-lock.json", and "package.json".
- CODE EDITOR:** The active file is "p1_xx.html". The code is as follows:

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <meta charset="UTF-8" />
5  <meta name="viewport"
6  content="width=device-width, initial-scale=1.0" />
7  <link href="./output.css" rel="stylesheet" />
8  </head>
9  <body>
10 <div class="text-center my-8 text-emerald-700">
11 <h1 class="mt-4 font-bold text-2xl">P1_xx:
12 <Simple C2F</h1>
13 <h3 class="mt-4">Hsingtai Chung, 123456789</h3>
14 <div class="result1 mt-4 font-semibold text-[16px] text-slate-800"></div>
15 <div class="result2 mt-4 font-semibold text-[16px] text-slate-800"></div>
16 </div>
17 <script type="module" src="./p1_xx.js"></script>
18 </body>
19 </html>
```

=> Chrome 顯示

```
<!DOCTYPE html>
<html>
  <head> ... </head>
  <body wotdisconnected="true">
    <span id="warning-container">...</span>
    <div class="text-center my-8 text-emerald-700">
      <h1 class="mt-4 font-bold text-2xl">P1_xx: Simple C2F</h1>
      <h3 class="mt-4">Hsingtai Chung, 123456789</h3>
    ...
    <div class="result1 mt-4 font-semibold text-[16px] text-00">19°C = 66.2°F</div> == $0
    <div class="result2 mt-4 font-semibold text-[16px] text-00">28°C = 82.4°F</div>
  </div>
<script type="module" src="./p1_xx.js"></script>
<!-- Code injected by live-server --&gt;
&lt;pre&gt;  ext-emerald-700  div.result1.mt-4.font-semibold.text-[16px].text-sla
&lt;/pre&gt;</pre>

Styles Computed Layout Event Listeners DOM Breakpoints

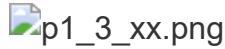


element.style {  
}

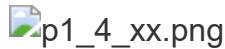

```

Your Answer

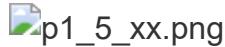
=> 檔案目錄 (xx 要改成你的學號)



=> Chrome 顯示



=> p1_xx.js 重點截圖



(20%) P2: 實作 p2_xx

以你學號後 5 碼，取 5 個攝氏溫度，放入 data_xx.js 之 data1 中。本次考試老師用的學號後 5 碼是 56789，因此取 19, 28, 37, 46, 55。

讀入 data1 陣列中的數字讀入，計算其華氏溫度，將 5 筆資料之結果放入 result1 選擇器中，之後根據你的學號，再讀入 3 個數字，本例是 234，因此取 64, 73, 82 三個數字，將 8 個數字的結果放入 result2 選擇器中，輸出格式同 P1

19°C = 66.2°F

tailwindcss watch 指令如下，請記得要先切換到 p2_xx 目錄下，再執行

```
npx @tailwindcss/cli -i ./src/input.css -o ./src/output.css --watch
```

=> 檔案目錄 (xx 要改成你的學號)

The screenshot shows the VS Code interface with two main panes. The left pane is the Explorer view, displaying the project structure under 'QUIZ1_XX_ANSWER'. A red box highlights the 'p2_xx' folder, which contains 'node_modules', 'src' (containing 'data_xx.js', 'input.css', 'note.txt', 'output.css', 'p2_xx.html', 'p2_xx.js', 'package-lock.json', and 'package.json'), and other folders like 'p3_xx' and 'p4_xx'. The right pane shows two code editors. The top editor is for 'data_xx.js' and contains the following code:

```
JS p2_xx.js JS data_xx.js ...
exams > quiz1_xx > p2_xx > src > JS data_xx.js > ...
1  export const data1 = [19, 28, 37, 46, 55];
2
```

The bottom editor is for 'p2_xx.js' and contains the following code:

```
JS data_xx.js JS p2_xx.js X md_xx.md
exams > quiz1_xx > p2_xx > src > JS p2_xx.js > ...
30 // add 3 more
31 data1.push(64, 73, 82);
32 console.log('data1', data1);
33 outputStat(data1, 'result2');
34 |
```

=> Chrome 顯示

P2_xx: C2F from Array

Hsingtai Chung, 123456789

Array Statistics for result1

19°C = 66.2°F
28°C = 82.4°F
37°C = 98.6°F
46°C = 114.8°F
55°C = 131°F

Array Statistics for result2

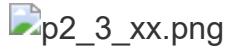
19°C = 66.2°F
28°C = 82.4°F
37°C = 98.6°F
46°C = 114.8°F
55°C = 131°F
64°C = 147.2°F
73°C = 163.4°F
82°C = 179.6°F

Console

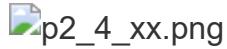
```
data1 → [19, 28, 37, 46, 55, 64, 73, 82] p2_xx.js:  
resultText  
19°C = 66.2°F <br />  
28°C = 82.4°F <br />  
37°C = 98.6°F <br />  
46°C = 114.8°F <br />  
55°C = 131°F <br />  
64°C = 147.2°F <br />  
73°C = 163.4°F <br />  
82°C = 179.6°F <br />
```

Your Answer

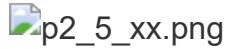
=> 檔案目錄 (xx 要改成你的學號)



=> Chrome 顯示



=> p1_xx.js 重點截圖



(20%) P3: 實作 p3_xx

=> 檔案目錄

The screenshot shows the VS Code interface with the following details:

- EXPLORER:** Shows the project structure:
 - QUIZ1_XX_ANSWER
 - .vscode
 - css
 - demo
 - exams\quiz1_xx
 - p1_xx
 - p2_xx
 - p3_xx** (highlighted with a red box)
 - images
 - p3_xx.css
 - p3_xx.html**
 - JS p3_xxjs** (highlighted with a red box)
 - p4_xx
 - js
 - md_quiz1
 - scss
 - webfonts
 - .gitignore
 - index.html
 - JSS:** data_xx.js, p2_xx.js, p3_xx.html, p3_xx.css, p3_xxjs (highlighted with a red box)
 - HTML:** p3_xx.html (highlighted with a red box)
 - CSS:** p3_xx.css
 - JS:** p3_xxjs (highlighted with a red box)

The code editor displays the **p3_xxjs** file, which contains the following functions:

```
function changeImage(index) { ... }
function showTKU60() { ... }
function clearMenu1All() { ... }
```

The **p3_xx.html** file includes several JavaScript event handlers:

 - `<li onclick="showTKU60()">...`
 - `<li onclick="clearMenu1All()">...`
 - `<li onclick="changeImage(1)">`

=> Chrome: 一開始，只有顯示"淡江大戲 1"，圖片是淡江大戲 1 的圖片

S 127.0.0.1:5501/exams/quiz1_xx/p3_xx/p3_xx.html#

L1 L2 L3 M1 M2 M3 R1 R2 R3

P3_xx: DOM basics, Hsingtai Chung, 981234567

淡江大戲 1

你沒聽過"因為謀財
There's a saying, "there are causes,

=> Chrome: 點選 L1 按鈕，顯示"淡江大戲 1" ~ "淡江大戲 5"，點選"淡江大戲 1"，要能顯示淡江大戲 3 的圖片

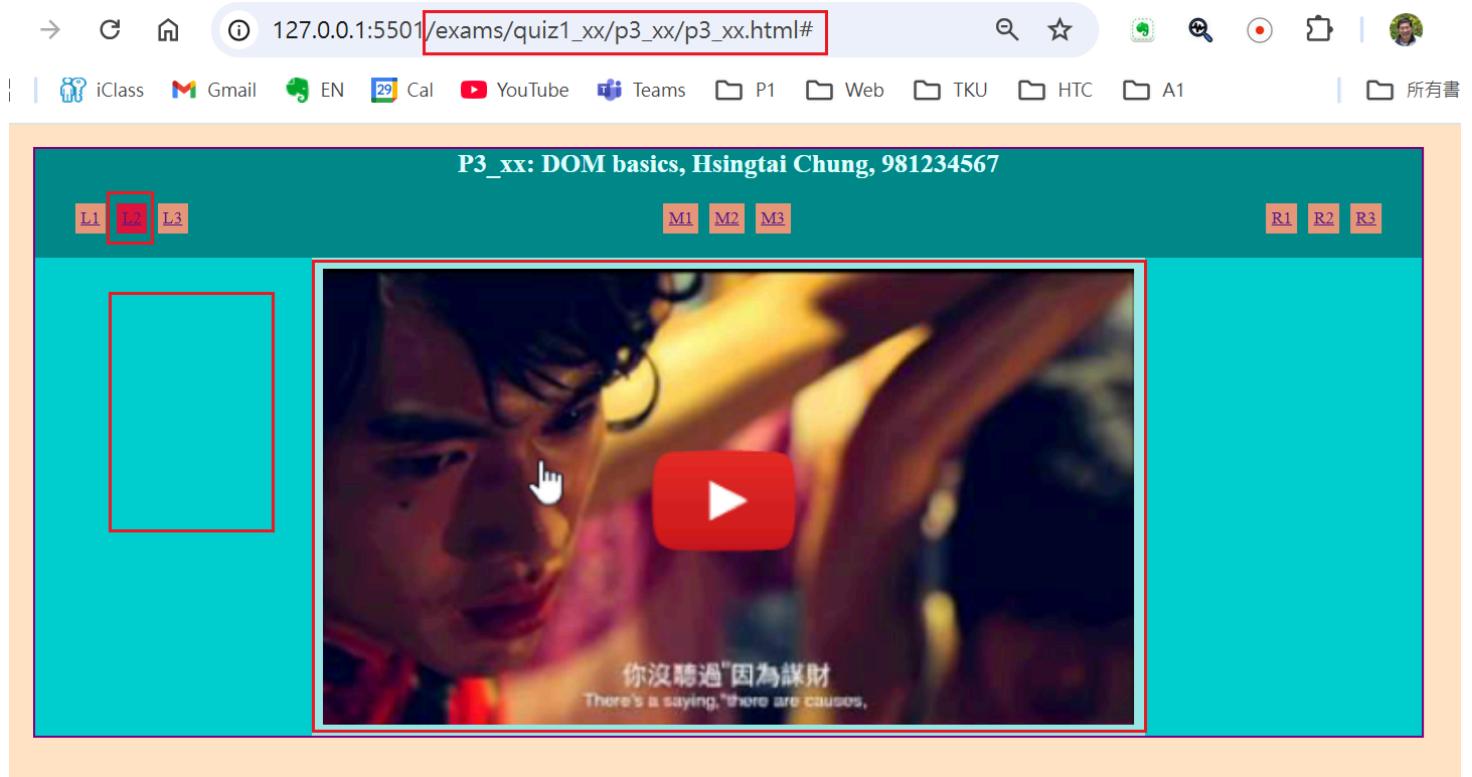
S 127.0.0.1:5501/exams/quiz1_xx/p3_xx/p3_xx.html#

L1 L2 L3 M1 M2 M3 R1 R2 R3

P3_xx: DOM basics, Hsingtai Chung, 981234567

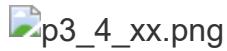
淡江大戲 1
淡江大戲 2
淡江大戲 3
淡江大戲 4
淡江大戲 5

=> Chrome: 點選 L2 按鈕，清除所有"淡江大戲 1" ~ "淡江大戲 5"，顯示"淡江大戲 1"的圖片

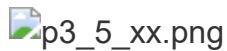


Your Answer

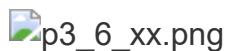
=> 檔案目錄 (xx 要改成你的學號)



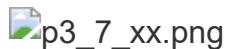
=> Chrome: 一開始，只有顯示"淡江大戲 1"，圖片是淡江大戲 1 的圖片



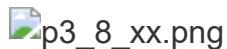
=> Chrome: 點選 L1 按鈕，顯示"淡江大戲 1" ~ "淡江大戲 5"，點選"淡江大戲 1"，要能顯示淡江大戲 3 的圖片



=> Chrome: 點選 L2 按鈕，清除所有"淡江大戲 1" ~ "淡江大戲 5"，顯示"淡江大戲 1"的圖片



=> p3_xx.js 三個需實作的 function code (可以多張圖片)



(20%) P4: 實作 p4_xx

提供 menu theme，可以參考其顯示畫面

=> 檔案目錄

p4_xx.html 中的 class 名稱 btn-center, menu-center 請不要更改，其內容一開始是空的，需要考 JavaScript 將資料放入。

```
<section class="menu">
  <!-- title -->
  <div class="title">
    <h2>P4_xx Menu -- Hsingtai 123456789</h2>
    <div class="underline"></div>
  </div>
  <!-- filter buttons -->
  <div class="btn-center"></div>
  <!-- menu items -->
  <div class="menu-center"></div>
</section>
<script type="module" src="./p4_xx.js"></script>
</body>
```

data_xx.js 中提供的陣列，名稱是 menu_xx 請將 xx 改成你的學號後兩碼，匯入 p4_xx.js 中時，用的陣列名稱是 menu_xx

如果沒有遵守上述規定，會給予扣分 10~20 分。

The screenshot shows the VS Code interface with the following details:

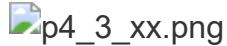
- Explorer:** Shows the project structure under "QUIZ1_XX_ANSWER". The "p4_xx" folder is highlighted with a red box. Inside "p4_xx", there are "images", "theme", "JS data_xxjs", "p4_xx.css", "p4_xx.html", and "JS p4_xxjs".
- Files:** Several files are listed in the sidebar:
 - p3_xx.css
 - md_xx.md
 - p4_xx.html
 - JS p4_xxjs
 - p4_xx.html
 - JS p4_xxjs
- Code Editors:** Two code editors are visible.
 - p4_xx.html:** Contains the HTML structure with sections for title, filter buttons, and menu items. The "menu-center" section is highlighted with a red box.
 - JS p4_xxjs:** Contains the JavaScript code defining the "menu_xx" array. The array definition and the "export default menu_xx;" statement are highlighted with red boxes.
- Terminal:** A terminal window is visible at the bottom, showing the command "quz1_xx_answer" and some output.

=> Chrome 顯示

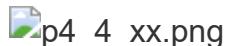
```
p4_xx.js:6
menu_xx
(6) [{}]
  ↪ 0: {id: 1, title: 'buttermilk pancakes', category: 'breakfast'}
  ↪ 1: {id: 2, title: 'diner double', category: 'lunch', price: 13.99}
  ↪ 2: {id: 3, title: 'godzilla milkshakes', category: 'shakes', price: 13.99}
  ↪ 3: {id: 4, title: 'country delight', category: 'breakfast', price: 13.99}
  ↪ 4: {id: 5, title: 'hamburger', category: 'lunch', price: 13.99}
  ↪ 5:
    category: "dinner"
    desc: "Lorem ipsum dolor sit amet consectetur adipisicing e"
    id: 6
    img: "./images/item-7.jpeg"
    price: 13.99
    remote_img: ""
    title: "godzilla milkshake"
  length: 6
[[Prototype]]: Object
filterBtns
NodeList(5) [button.filter-btn, button.filter-btn, button.filter-btn, button.filter-btn, button.filter-btn]
p4_xx.js:62
Unchecked runtime.lastError: Could not establish connection. Receiving end does not exist.
p4_xx.html:1
```

Your Answer

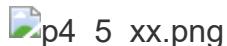
=> 檔案目錄 (xx 要改成你的學號)



=> Chrome 顯示



=> p4_xx.js code , 標註重點如何將內容放入 menu-center 中 (可以多張圖)



=> p4_xx.js code , 標註重點如何將內容放入 btn-center 中

