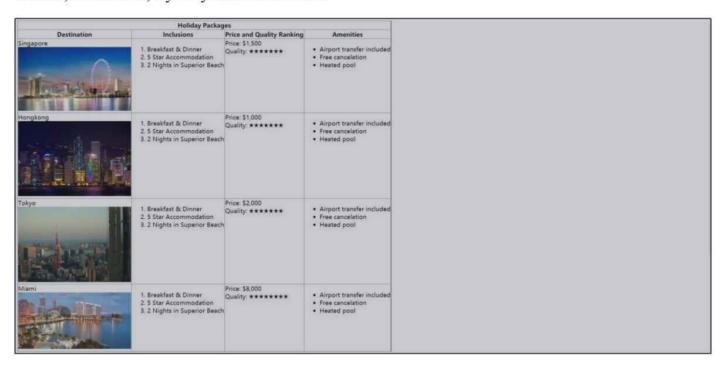
884期末复习

Assignment 1

Task 1 table, tr th, tr td

As is shown below, we have seven holiday packages, which are Singapore, Hongkong, Tokyo, Miami, Hokkaido, Sydney and Melbourne.



```
1 <!DOCTYPE html>
2 <html>
3 <head>
     <meta charset="UTF-8">
     <title>Holiday Packages - by Kama Wang(7350752)</title>
 </head>
6
  <body>
7
     8
9
       Holiday Packages
10
       11
       12
          Destination
13
          Inclusions
14
          >Price and Quality Ranking
15
          Amenities
16
```

```
17
        18
        19
             <div>Singapore</div>
20
             <img src="https://ts1.cn.mm.bing.net/th/id/R-C.ef2d3ea5c43d6bb33"</pre>
21
          22
23
           24
25
                Breakfast & Dinner
                Star Accommodation
26
                2 Nights in Superior Beach
27
             28
          29
          30
             <div>Price: $1,500</div>
31
             <div>Quality: &#9733;&#9733;&#9733;&#9733;&#9733;&#9733;
32
          33
          34
35
             <l
                Airport transfer included
36
                Free cancelation
37
                Heated pool
38
             39
          40
41
        42
43 </body>
44 </html>
```

Task 2 CSS, class和id

As is shown in the picture below, we have top 10 travel destinations, that is, Hangzhou, Shanghai, Xiamen, Taipei, Hongkong, Beijing, Suzhou, Nanjing, Lijiang and Wuhan. These cities are all in China

Destination	Introduction	What to visit
Hangzhou	Hangzhou is the capital of Zhejiang Province in eastern China and is one of the most modern and prosperous cities in China, located about 100 kilometers (60 miles) southwest of Shanghai. It is situated at the southern end of the Grand Canal and is one of the seven ancient capitals of China. When Marco Polo came to Hangzhou in the 13th century, he declared it "the most beautiful and elegant city in the world".	Lingyin Temple West Lake Jingci Temple
Shanghai	Shanghai, the largest city in China, is one of the four central municipalities. It is the economic, financial, trade and shipping center of mainland China. Shanghai has created and broken many of the world's best and China's best by the China World Records Association. Located at the mouth of the Yangtze River in the middle of China's mainland coastline, Shanghai has the largest industrial base and the largest foreign trade port in China.	

```
1 <!DOCTYPE html>
 2 <html>
 3 <head>
 4
       <meta charset="UTF-8">
 5
       <title>Top 10 Travel Destinations - by Kama Wang(7350752)</title>
 6
       <style>
 7
            #travelTable {
              font-size: 20px;
 8
             border-style: solid;
 9
             border-collapse: separate;
10
             border-spacing: 1px;
11
           }
12
           id类型
13
           #headerRow {
14
             font-size: 25px;
15
             color: navy;
16
             background-color: #00000010;
17
           }
18
           class类型
19
            .destRow {
20
21
             background-color: rgb(158, 179, 237);
22
           }
           #travelTable th {
23
             padding: 20px;
24
             border-style: dotted;
25
26
             border-color: green;
             border-width: 3px;
27
             height: 45px;
28
29
           }
           #travelTable td {
30
             padding: 20px;
31
             border-style: solid;
32
33
             border-color: gray;
```

```
border-width: lpx;
34
       }
35
       .destCol {
36
        text-align: center;
37
        vertical-align: center;
38
       }
39
       .destIntro {
40
        width: 800px;
41
42
       }
43
    </style>
44
45 </head>
46 <body>
    47
       48
         Destination
49
         Introduction
50
         What to visit
51
52
       53
         Hangzhou
54
         Hangzhou is the capital of Zhejiang Province in
55
         56
          <l
57
           Lingyin Temple
58
           West Lake
59
           Jingci Temple
60
61
          62
       63
64
    65 </body>
66 </html>
```

Assignment 2

Task 1 button, js

Q1. Create a webpage A2-Task1-StudentName-StudentNumber.html.

The title of the webpage should include your Student Name and Student Number. On the webpage, display 3 buttons "Double", "Half" and "Reset Number". Below the buttons, display a randomly generated two-digit number in red color.

- Whenever the user clicks the button "Double", the presented number is multiplied by 2 (e.g. 15*2 = 30);
- Whenever the user clicks the button "Half", the presented number is divided by 2 (e.g. 15/2 = 7.5);
- Whenever the user clicks the button "Reset Number", a new random two-digit number is generated.
- Count and display how many times the user has clicked the button "Reset Number".

 The value of the counter should be displayed next to the "Reset Number" button.

```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <head>
       <meta charset="UTF-8">
 4
       <title>Kama Wang-7350752</title>
 5
 6 </head>
 7 <body>
       <button onclick="double()">Double
 8
       <button onclick="half()">Half</putton> <br>
 9
       <button onclick="reset()">Reset Number</button>
10
       <span id="resetTimes">0</span> <br>
11
       <span id="Number" style="color: red;"></span>
12
13
       <script>
           var randomNum = Math.ceil(Math.random()*100)
14
           var num = document.getElementById("Number")
15
           var resetTimes = 0
16
17
           num.innerHTML = randomNum
           function double() {
18
               num.innerHTML = 2 * Number(num.innerHTML)
19
20
           }
           function half() {
21
               num.innerHTML = Number(num.innerHTML) /2
22
23
           }
           function reset() {
24
               resetTimes += 1
25
               num.innerHTML = Math.ceil(Math.random()*100)
26
               var resetEle = document.getElementById("resetTimes")
27
28
               resetEle.innerHTML = resetTimes
           }
29
```

```
30 </script>
31 </body>
32 </html>
```

Task 2 Form input

Q2. Create a webpage A2-Task2-StudentName-StudentNumber.html.

The title of the webpage should include your Student Name and Student Number. On the webpage, display 3 text fields for the user to enter 3 words with instructions "Enter name", "Enter sport", "Enter day in the week".

Below the text fields, display a button "Create sentence". Whenever the user clicks the button "Create sentence", display the following information, one on each line:

- My name is *name* (the sentence should be in all capital letters)
- I like *sport* (the sentence should be in all small letters)
- Your name has *num* of characters
- Name is having sport on day

```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <head>
       <meta charset="UTF-8">
 4
       <title>Kama Wang-7350752</title>
 5
 6
       <script>
           function display() {
 7
               var nameEle = document.getElementById("name")
 8
               var sportEle = document.getElementById("sport")
 9
               var weekEle = document.getElementById("week")
10
               var line1Ele = document.getElementById("line1")
11
               var line2Ele = document.getElementById("line2")
12
13
               var line3Ele = document.getElementById("line3")
               var line4Ele = document.getElementById("line4")
14
15
               line1Ele.innerHTML = "MY NAME IS " + nameEle.value.toUpperCase()
               line2Ele.innerHTML = "I like " + sportEle.value.toLowerCase()
16
               line3Ele.innerHTML = "Your name has " + nameEle.value.length + " cha
17
               line4Ele.innerHTML = nameEle.value + " is having " + sportEle.value
18
           }
19
       </script>
20
21 </head>
22 <body>
23
       Enter name: <input type="text" id="name"> <br></pr>
```

```
24
       Enter sport: <input type="text" id="sport"> <br>
       Enter day in the week: <input type="text" id="week"> <br>
25
       <button onclick="display()">Create sentence</putton> <br>
26
       <span id="line1"></span> <br>
27
       <span id="line2"></span> <br>
28
       <span id="line3"></span> <br>
29
       <span id="line4"></span> <br>
30
31 </body>
32 </html>
```

Task 3 mouse over

Q3. Create a webpage A2-Task3-StudentName-StudentNumber.html.

The title of the webpage should include your Student Name and Student Number. In this task, you will show how we can make bread. For that purpose, you will need to use 4 images of: flour; flour and water; oven; and bread.

When the webpage loads the image of the bread should be shown,

- Whenever the user hover over (move mouse over) the bread, change the image to flour;
- Whenever the user hover over (move mouse over) the flour, change the image to flour and water;
- Whenever the user hover over (move mouse over) the flour and water, change the image to oven:
- Whenever the user hover over (move mouse over) the oven, change the image back to bread.

```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <head>
       <meta charset="UTF-8">
 4
 5
       <title>Kama Wang-7350752</title>
 6
       <script>
           function changeImg() {
 7
               imgEle = document.getElementById("img")
 8
               if (imgEle.name === "bread") {
 9
                    imgEle.src = "flour.jpg"
10
11
                    imgEle.name = "flour"
               } else if (imgEle.name === "flour") {
12
                    imgEle.src = "flour and water.jpg"
13
                    imgEle.name = "flour and water"
14
               } else if (imgEle.name === "flour and water") {
15
```

```
16
                    imgEle.src = "oven.jpg"
                    imgEle.name = "oven"
17
                } else if (imgEle.name === "oven") {
18
                    imgEle.src = "bread.jpg"
19
                    imgEle.name = "bread"
20
                }
21
            }
22
        </script>
23
24 </head>
25 <body>
        <img src="bread.jpg" alt="bread" width="400px" name="bread" onmouseover="cha</pre>
26
27 </body>
28 </html>
```

Task 4 checkbox, form method

Q4. Consider the following fictional scenario, and create a webpage A2-Task4-StudentName-StudentNumber.html, that contains a webform.

The "MyChoice" website offers restaurant reservations. The user can choose from 4 restaurants: "MyTime-Wollongong", "PerfectDish-Kiama", "DinerOut-Buli", "SpotOn-Shellharbour". To make the reservation the user needs to provide the name, number of guests, email, phone and preferred time slot. The webform also has a text area where the user can include special requirements (if any). Additionally, the user can indicate the preferred method for communication (notifications regarding the reservations and future advertisements).

The back-end service is running at http://mychoice55.com/query and it accepts GET request with the following parameters:

- rest: this parameter is to specify the restaurant, the acceptable values are:
 - o 1: for "MyTime-Wollongong"
 - o 2: for "PerfectDish-Kiama"
 - o 3: for "DinerOut-Buli"
 - o 4: for "SpotOn-Shellharbour"
- name: this parameter is to specify the name of the user;
- num: this parameter is to specify the number of guests;
- phone: this parameter is to specify the user's mobile phone number;
- email: this parameter is to specify the user's email;
- time: this parameter is to specify the user's preferred time slot, and the acceptable values are:

```
o e: for 4-6 pm
```

- o m: for 6-8 pm
- o 1: for 8-10 pm
- req: this parameter is to specify the user's special requirements;
- note: this parameter is to specify the user's preferred method for communication, it accepts zero to multiple values, and the acceptable values are:
 - o SMS: for notification via SMS
 - o EM: for notification via email
 - o SUB: for subscription for future advertisements

Create a web form with the following requirements:

- Use a drop-down list: for the restaurant choice
- Use a text field: for the name of the user
- Use a text field: for the number of guests
- Use a text field: for the user's mobile phone number
- Use a text field: for the user's email
- Use 3 radio buttons: for the preferred time slot
- Use a text area: for the user's special requirements
- Use 3 checkboxes: for the preferred method for communication
- The webform has 2 buttons: one for submit and one for reset the form.
- Use table arrangement so that your webform looks presentable for the users.
- Your webform must explicitly specify the correct action and method.
- You should test the web form to see if it submits the correct parameters and values to the server.

Restaurant Reservation			
Restaurant	MyTime-Wollongong V		
Name			
Guests number			
Phone			
Email			
Preferred time slot	4–6 pm6–8 pm8–10 pm		
Special requirements			
Notes	□SMS □Email □Subscripion for further advertisement		

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
      <meta charset="UTF-8">
4
      <title>Kama Wang-7350752</title>
6 </head>
7 <body>
      <form action="http://mychoice55.com/query" method="get">
9
         10
                Restaurant Reservation
11
             12
             13
14
                Restaurant
15
16
                17
                   <select name="rest">
18
19
                       <option value="1">MyTime-Wollongong</option>
                       <option value="2">PerfectDish-Kiama</option>
20
                       <option value="3">DinerOut-Buli</option>
21
                       <option value="4">SpotOn-Shellharbou</option>
22
                   </select>
23
                24
             25
26
             27
                   Name
28
                29
                >
30
31
                   <input type="text" name="name">
                32
             33
34
                <input type="radio" name="time" value="e"> 4-6 pm <br>
35
                   <input type="radio" name="time" value="m"> 6-8 pm <br>
36
                   <input type="radio" name="time" value="l"> 8-10 pm <br>
37
                38
             39
             40
41
                42
                   Special requirements
43
                44
                   <textarea name="req" cols="30" rows="10"></textarea>
45
46
```

```
47
            48
               49
50
                  Notes
               51
               52
53
                  <input type="checkbox" name="note" value="SMS">SMS <br>
54
                  <input type="checkbox" name="note" value="EM">Email <br>
                  <input type="checkbox" name="note" value="SUB">Subscripion f
55
               56
            57
            58
               59
                  <button type="submit">Submit
60
                  <button type="reset">Reset</button>
61
               62
            63
         64
65
66
     </form>
67 </body>
68 </html>
```

Assignment 3

Task 1 interval

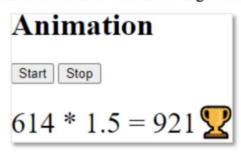
Q1. Create a webpage (A3-Task1-StudentName-StudentNumber.html) that has two buttons 'Start' and 'Stop' as shown in the figure below. When the 'Start' button is pressed, animation starts - a random number in the range of [1, 1000] is generated, and after 1 second the website displays a equation based on the generated random number. Next to the equation, a randomly chosen emoji is displayed.

For example, the generated random number is 614.

- When the animation starts, the web page may display 614 * 1 = 614 %
- After 1 second, the web page will display 614 * 1.5 = 921
- then another second later 614 * 2 = 1228 , and so on.

In this animation, you must use a randomly generated number. The second number in the equation is increased by 0.5 every second. The emoji is randomly chosen from a predefined list of at least 3 emoji.

When the button "Stop" is clicked, then the web page stops the animation, whatever the equation is currently displayed will stay there on the page. When the user clicks the start button again, the animation is reset and a new random number is generated.



```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <head>
       <meta charset="UTF-8">
 4
 5
       <title>Kama Wang 7350752</title>
 6
       <script>
 7
           var num1, num2;
 8
           var timer;
           var emojiList = ["&#128540", "&#128516", "&#128523"]
 9
           function startAnimation() {
10
               clearInterval(timer);
11
               var display = document.getElementById("display");
12
               num1 = Math.floor(Math.random()*1000)+1;
13
               num2 = 0.5;
14
               timer = setInterval(() => {
15
                   num2 = num2 + 0.5;
16
                   var idx = Math.floor(Math.random()*3);
17
                   var emoji = emojiList[idx];
18
                   display.innerHTML = `${num1} * ${num2} = ${num1 * num2}${emojiLi
19
```

```
20
              }, 1000);
          }
21
          function stopAnimation() {
22
              clearInterval(timer);
23
24
          }
      </script>
25
26 </head>
27 <body>
28
      <h1>Animation</h1>
      <button onclick="startAnimation()">Start
29
      <button onclick="stopAnimation()">Stop</button>
30
      31
32 </body>
33 </html>
```

Task 2 js修改CSS

Q2. Create a web page (A3-Task2-StudentName-StudentNumber.html) with the title "Just for fun!".

The Webpage should have a heading "Everything is Fun!", and three buttons "rotate", "scale", "all-in-one";

When the user moves the mouse pointer over the heading, the color of the text will randomly change to "yellow", "blue", "green", or "red".

When the user moves the mouse pointer over the "rotate" button, the button will rotate for 45° clockwise.

When the user moves the mouse pointer over the "scale" button, the button will double its size.

When the user moves the mouse pointer over the "all-in-one" button, the button will rotate for 60° counterclockwise and will scale up for 50%.

```
11
              -webkit-align-items: center;
              -ms-flex-align: center;
12
              display: -webkit-flex;
13
              display: flex;
14
              height: 100 %;
15
              margin: 0; }
16
17 </style>
18
19 <body>
       <div class="center">
20
          <h1 id="esf" onmouseover="motify()">Everything is Fun!</h1>
21
       </div>
22
23
       24
25
          26
              <button onmouseover="rotate()">rotate</button>
27
28
              29
              30
                  <button onmouseover="scale()">scale</putton>
              31
              32
                  <button onmouseover="all_in_one()">all-in-one
33
              34
35
           36
37 </body>
38
39
40 <script>
41
      function motify(){
          var color=new Array();
42
          color=["Cyan","Coral","Gold","brown"]
43
          var esf = document.getElementById("esf");
44
45
          var random=Math.floor(Math.random()*4)
46
          esf.style.color = color[random];
       }
47
48
49
       function rotate (){
50
           document.getElementById('esf').style.transform = 'rotate(45deg)';
51
       }
52
53
       function scale (){
54
           document.getElementById('esf').style.transform = 'scale(2)';
55
56
       }
57
```

Task 3 DTD

Q3. Write an XML document (A3-Task3-StudentName-StudentNumber.xml) that represents the following receipt.

The XML should contain internal DTD (XML Document Type Definition).

Receipt		
Number:	113654	
Date:	15/03/2022	
Products		
Description	Quantity	Amount
Milk	2	7.20
Chicken tenders	5	25.75

```
1 <?xml version="1.0" encoding="UTF-8"?>
 2 <!DOCTYPE receipt [</pre>
 3
       <!ELEMENT receipt (products)>
       ATTLIST代表属性
 4
 5
       <!ATTLIST receipt number CDATA #REQUIRED>
       <!ATTLIST receipt date CDATA #REQUIRED>
 6
       <!ELEMENT products (product+)>
 7
       <!ELEMENT product (description, quantity, amount)>
 8
       <!ELEMENT description (#PCDATA)>
 9
       <!ELEMENT quantity (#PCDATA)>
10
       <!ELEMENT amount (#PCDATA)>
11
12 ]>
13 <receipt number="113654" date="15/03/2022" >
       cproducts>
14
           oduct>
15
               <description>Milk</description>
16
17
               <quantity>2</quantity>
               <amount>7.20</amount>
18
           </product>
19
           oduct>
20
                <description>Chicken tenders</description>
21
22
                <quantity>5</quantity>
```

Task 4 XML XSD

Q4. Write an XML (A3-Task4-StudentName-StudentNumber.xml) document that represents the following record.

Write the corresponding XSD code and save it into the file A3-Task4-StudentName-StudentNumber.xsd.

52 Some Str	reet, NSW 2500
No. Items	Status
2	Replaced
7	Operational
	No. Items

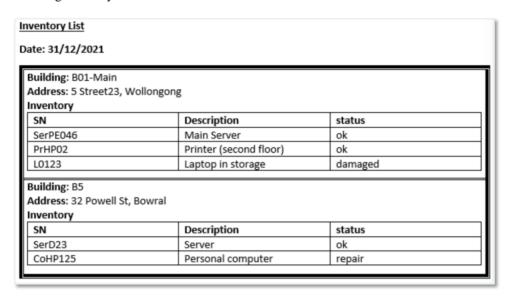
```
1 <?xml version="1.0" encoding="UTF-8"?>
 2 <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
 3
       <xs:element name="storageRoom">
            <xs:complexType>
 4
 5
                <xs:sequence>
                    <xs:element name="address" type="xs:string" />
 6
                    <xs:element name="inventory">
 7
                         <xs:complexType>
 8
                             <xs:sequence>
 9
                                 <xs:element name="item" max0ccurs="unbounded">
10
                                     <xs:complexType>
11
12
                                         <xs:sequence>
                                              <xs:element name="code" type="xs:string"</pre>
13
                                              <xs:element name="No.Items" type="xs:int</pre>
14
15
                                              <xs:element name="status" type="xs:strin</pre>
                                         </xs:sequence>
16
                                     </xs:complexType>
17
                                 </xs:element>
18
                             </xs:sequence>
19
20
                        </xs:complexType>
                    </xs:element>
21
                </xs:sequence>
22
                <xs:attribute name="nextRevision" type="xs:string" />
23
                <xs:attribute name="studentName" type="xs:string" />
24
```

```
1 <?xml version="1.0" encoding="UTF-8"?>
 2 <storageRoom xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="A3-Task4-Kama%20Wang-7350752.xsd"
    nextRevision="20/12/2022" studentName="Kama Wang" studentNumber="7350752">
 4
 5
       <address>52 Some Street, NSW 2500</address>
       <inventory>
 6
           <item>
               <code>INV-522</code>
 8
               <No.Items>2</No.Items>
9
               <status>Replaced</status>
10
           </item>
11
           <item>
12
               <code>RCE-1236</code>
13
               <No.Items>7</No.Items>
14
15
               <status>Operational</status>
           </item>
16
       </inventory>
17
18 </storageRoom>
19
```

Assignment 4

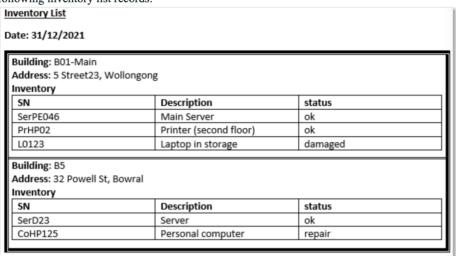
Task 1

Q1. Write an XML file (A4-Task1-StudentName-StudentNumber.xml) that contains the following inventory list records:



```
1 <?xml version="1.0" ?>
 2 <inventoryList date="31/12/2021" studentName="Kama Wang" studentNum="7350752">
       <inventory building="B01-Main" Address="5 Street23, Wollongong">
 3
            <item>
 4
 5
                <SN>SerPE046</SN>
                <description>Main Server</description>
 6
 7
                <status>ok</status>
 8
           </item>
 9
           <item>
                <SN>PrHP02</SN>
10
                <description>Printer(second floor)</description>
11
                <status>ok</status>
12
13
            </item>
       </inventory>
14
       <inventory building="B5" Address="32 Powell St, Bowral">
15
            <item>
16
17
                <SN>SerD23</SN>
                <description>Server</description>
18
                <status>ok</status>
19
            </item>
20
       </inventory>
21
22 </inventoryList>
```

Q2. Write a JSON file (A4-Task2-StudentName-StudentNumber.json) that contains the following inventory list records:



```
1 {
 2
       "inventoryList":[
 3
            {
                "building": "B01-Main",
 4
                "addressing": "5 Street23, Wollongong",
 5
                "inventory": [
 6
 7
                     {
 8
                         "SN": "SerPE046",
                         "description": "Main Server",
 9
                         "status": "OK"
10
                    },
11
                     {
12
                         "SN": "PrHP02",
13
14
                         "description": "Printer(second floor)",
                         "status": "OK"
15
16
                     },
                     {
17
18
                         "SN": "L0123",
                         "description": "Laptop in storage",
19
                         "status": "damaged"
20
                    }
21
                ]
22
            },
23
            {
24
25
                "building": "B5",
                "addressing": "32 Powell St, Bowral",
26
                "inventory": [
27
                     {
28
                         "SN": "SerD23",
29
                         "description": "Server",
30
                         "status": "OK"
31
32
                    },
```

```
33
                     {
                         "SN": "CoHP125",
34
                         "description": "Personal computer",
35
                         "status": "repair"
36
                     }
37
38
                ]
            }
39
40
        ],
41
        "Date": "31/12/2021"
42 }
```

Task 3 readjson

Q3. Write a html file (A4-Task3-StudentName-StudentNumber.html) with one button "Read JSON".

- When a user clicks the button, an AJAX call will be made to get the JSON file (inventory list) created in A04-Task2.
- Received JSON should be parsed into a JavaScript object and the JavaScript object should be displayed on the webpage in the following format:

```
INVENTORY LIST
31/12/2021

B01-Main - 5 Street23, Wollongong
*SerPE046 - Main Server - OK
*PrHP02 - Printer (second floor) - OK
*L0123 - Laptop in storage - damaged

B5 - 32 Powell St, Bowral
*SerD23 - Server - OK
*CoHP125 - Personal computer - repair
```

```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <head>
 4
       <meta charset="UTF-8">
       <title>Kama Wang 7350752</title>
 5
 6
       <script>
           function getInventoryList() {
 7
               var xhttp = new XMLHttpRequest();
 8
               xhttp.onreadystatechange = function () {
 9
                    if (xhttp.readyState == XMLHttpRequest.DONE && xhttp.status == 2
10
```

```
11
                        var inventoryList = JSON.parse(xhttp.responseText);
                        var inventoryEle = document.getElementById("inventory");
12
                        var html =`<b>INVENTORY LIST</b><br>`;
13
                        html += `<font color="red">${inventoryList.studentName} ${in
14
                        html += `<br>${inventoryList.Date}<br>`;
15
                        for (let index = 0; index < inventoryList.inventoryList.leng</pre>
16
                            const item = inventoryList.inventoryList[index];
17
                            var tmp = `<br>${item.building} - ${item.addressing}<br>
18
19
                            for (let i = 0; i < item.inventory.length; i++) {</pre>
                                const ele = item.inventory[i];
20
                                tmp += `*${ele.SN} - ${ele.description} - ${ele.stat
21
                            }
22
                            if (index != inventoryList.inventoryList.length - 1) {
23
                                tmp += "<hr>"
24
25
                            }
26
                            html += tmp;
27
                        }
28
                        inventoryEle.innerHTML = html;
29
                    }
30
               }
31
                xhttp.open("GET", "A4-Task2-Kama Wang-7350752.json");
                xhttp.send();
32
33
           }
       </script>
34
35 <body>
       <button onclick="getInventoryList()">Read JSON</button> <br>< <br>
36
       <div id="inventory"></div>
37
38 </body>
39 </html>
40
```

Task 4 JS写html

Q4. Create a webpage (A4-Task4-StudentName-StudentNumber.html) that will simulate "product scanner".

- The webpage should display 3 text fields (product, quantity, price) and a button "BUY".
- The user can enter information and click the "BUY" button, after which the entered data is displayed in (added to) an ordered list.
- At the end of the list, the number of entered products and the total amount are displayed.

Product: bread rolls		
quantity: 4		
price \$: 0.65		
BUY		
1. milk 2 x \$4.5 2. coffee 1 x \$9.8 3. bread rolls 4 x \$0.65		
Number of products:3, Total ammout: \$21.40		

```
1 <!DOCTYPE html>
 2 <html lang="en">
 3 <head>
       <meta charset="UTF-8">
 4
       <title>Kama Wang 7350752</title>
 5
       <script>
 6
 7
           var orderNum = 0;
           var totalCost = 0;
 8
           function addOrder() {
 9
               product = document.getElementById("product").value;
10
               quantity = Number(document.getElementById("quantity").value);
11
               price = Number(document.getElementById("price").value);
12
               orderNum += 1;
13
               totalCost += quantity * price;
14
               var orderInfo = product + " " + quantity + " x " + "$" + price;
15
               var li = document.createElement("li");
16
17
               var orderText = document.createTextNode(orderInfo);
               li.appendChild(orderText);
18
               var orderUL = document.getElementById("orderHolder");
19
               orderUL.appendChild(li);
20
21
               var orderNumEle = document.getElementById("orderNum");
22
               orderNumEle.innerHTML = orderNum;
23
               var totalCostEle = document.getElementById("totalCost");
24
               totalCostEle.innerHTML = totalCost.toFixed(2);
25
           }
26
27
       </script>
                     aq
```

```
28 </head>
29 <body>
      Product: <input type="text" id="product"> <br>
30
      quantity: <input type="text" id="quantity"> <br>
31
      price $: <input type="text" id="price"> <br>
32
      <button onclick="addOrder()">BUY</button> <br>
33
      34
      Number of products:<span id="orderNum">0</span>, Total ammount: $<span id</p>
35
36 </body>
37 </html>
```

JSON	XML
JSON 是一种数据格式	XML 是一种标记语言
与 XML 相比,JSON 数据更容易阅读	XML 文档相对来说阅读起来比较困难
JSON 数据可以存储在 .json 格式的文本文件中	XML 数据可以存储在 .xml 格式的文本文件中
JSON 中支持字符串、数字、数组、布尔值等类型	XML 中只有字符串类型
JSON 没有显示功能	XML 提供了显示数据的能力,因为它是一种标记语言
JSON 仅支持 UTF-8 编码	XML 支持各种编码
JSON 不支持注释	XML 支持注释
JSON 不支持命名空间	XML 支持命名空间
JSON 读写速度更快,且更容易解析	相对于 JSON, XML 数据结构更加复杂,解析速度相对较慢
相对于 XML,JSON 的安全性较低	相对于 JSON,XML 的安全性更高