Tutorial 04: JavaScript and DOM

Question 1:

```
<!DOCTYPE html>
<html>
<head>
<title>Apple Tours</title>
</head>
<body>
   <div id="main">
       <h1>Hello <span id="there">there</span></h1>
       We provide the tours to these countries:
       <111>
          France
          Spain
          Thailand
       <a href="book.html" class="special">
           <button type="button">Book Tour</button>
       </a>
   </div>
</body>
</html>
```

Given the above HTML codes, write JavaScript codes using DOM querySelector() and querySelectorAll() methods to:

- a) Select all <Ii> and print out the list items in the browser's JavaScript console
- b) Select the <a> with class "special" and print a pop-up message "Book a tour" when it is moused over
- c) Define a new CSS class with the styles (i.e. blue font color and a dashed blue border).

 Select the element with id "there" and toggle the new CSS class to manipulate the styles of the element.

NOTE: Refer to lecture notes for the sample codes to SELECT an element and save it to a variable, then MANIPULATE the style

Reference link – HTML DOM Document:

https://www.w3schools.com/jsref/dom_obj_document.asp

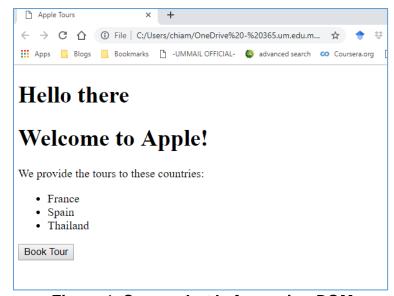


Figure 1: Screenshot before using DOM

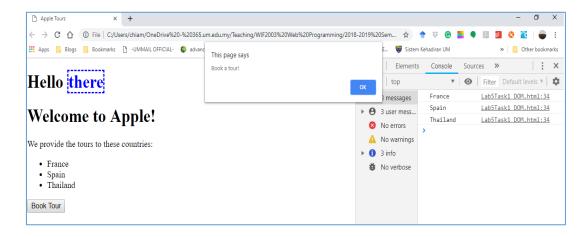


Figure 2: Screenshot after using DOM

Question 2: Using DOM in JavaJam Coffee House website

In this task, you have to do the following steps:

1. Open the jobs.html file in your javajam5 project folder to modify the dropdown list codes ("Select job position:").

Remove/Comment the following codes from "jobs.html":

2. Write JavaScript codes to replace the codes that have been removed/commented.

```
<label for="select-choice">Select job position:</label>
<script>
//Write codes for 2(a), 2(b), 2(c), 2(d)
</script>
```

a) Define an array of three jobclass objects (see Table 1). Each jobclass object should have code, name, and scope properties.

Table 1: Three jobclass objects with code, name and scope properties

code	name	scope
ba	Barista	Preparing and serving hot and cold drinks such as
		coffee, tea, artisan and speciality beverages.
ma	Manager	Managing day-to-day operations of the cafe.
tr	Trainee	Supporting daily operations of the cafe.

b) Given the provided array of **jobclass**, using document.write and a loop to generate a drop-down list that display the **jobclass** name. The value attribute for each item in the list should be the **jobclass** code. The sample browser screenshot should look like **Figure 3**.

Barista



Figure 3: Screenshot for the drop-down list that display the list of job positions

c) Add a new paragraph HTML element with an id named "jobScope" after the closing tag of </script> to display the scope of each job position (see Figure 4).

</script>
</script>
 Preparing and serving hot and cold drinks such as coffee, tea, artisan and speciality beverages.
Select job position:

Figure 4: Screenshot of the paragraph that display job scope description

Preparing and serving hot and cold drinks such as coffee, tea, artisan and speciality beverages.

d) Write JavaScript code using DOM to add an **event listener** to handle the **change event** of the drop-down list. This event handler should **display the job scope** of the currently **selected job position** within the paragraph
| id="jobScope">
| The sample browser screenshots should look like Figure 5 and Figure 6.

Hint: Your event handler may use the value property of the drop-down list to which show the 'code' of the jobclass in the array in order to retrieve the right job scope ('scope') in the array to be displayed in the textContent or innerText property of the cp id="jobScope">.

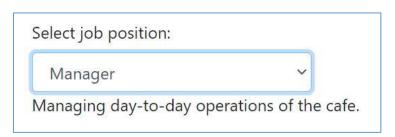


Figure 4: Screenshot when "**Manager**" job position is selected, the browser should display the description "**Managing day-to-day operations of the cafe.**"

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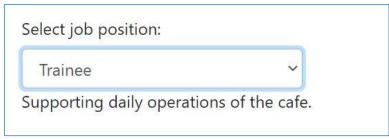


Figure 5: Screenshot when "Trainee" job position is selected, the browser should display the description "Supporting daily operations of the cafe."