BCVD1007 – Full Stack Development II – Lab 4

- Windows & DOM Selection

Developer Note:

- Use the web documents and window web api
- Start code for this lab can found here:
    - https://tinyurl.com/y49wsa2j

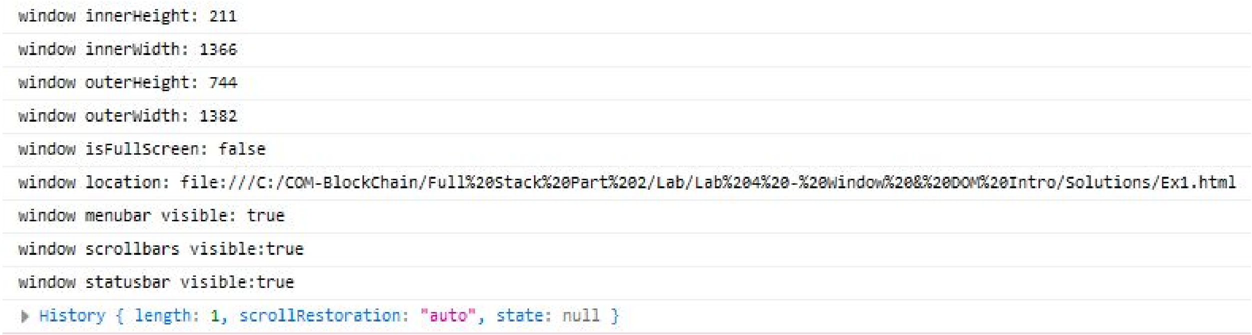
References:
https://developer.mozilla.org/en-US/docs/Web/API/Document
https://developer.mozilla.org/en-US/docs/Web/API/Window

Exercise 1:

Create a html document named **Ex1.html** and a function named **windowDetails** that has the following requirements:

- Invoked within the page
- Outputs to the console the following window properties
    - Inner width and height
    - Outer width and height
    - The window is in full screen mode or not
    - The window location the file
    - The visibility of the status bar, scroll bars and menu bar.
    - The window history object

The expected output should be as follows:



```
window innerHeight: 211
window innerWidth: 1366
window outerHeight: 744
window outerWidth: 1382
window isFullScreen: false
window location: file:///C:/COM-BlockChain/Full%20Stack%20Part%202/Lab/Lab%204%20-%20Window%20&%20DOM%20Intro/Solutions/Ex1.html
window menubar visible: true
window scrollbars visible:true
window statusbar visible:true
▸ History { length: 1, scrollRestoration: "auto", state: null }
```

Exercise 2:

Use the starter code for **Ex2.html** and code the following:

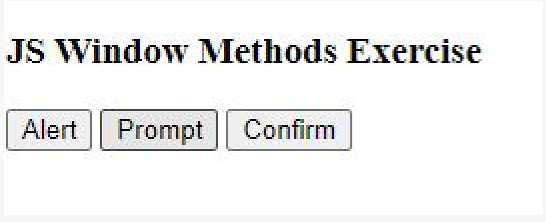
- Create a function **openTabs()** that will:
    - have no parameters
    - will iterate over the the siteUrl array and open each url in it’s own window
- Invoke the openTabs function

Exercise 3:

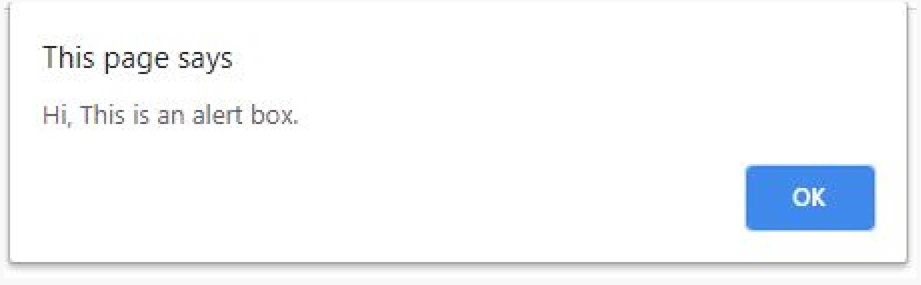
Use the starter code for **Ex3.html** and code the following:

- Create three functions
  - **displayAlert()** will display an alert popup
  - **displayPrompt()** will display a prompt popup
  - **displayConfirm()** will display a confirm popup and close the window, if Yes is returned by user, otherwise No will do nothing

- Modify the three buttons in the HTML document to invoke the functions when the button is clicked by the user.

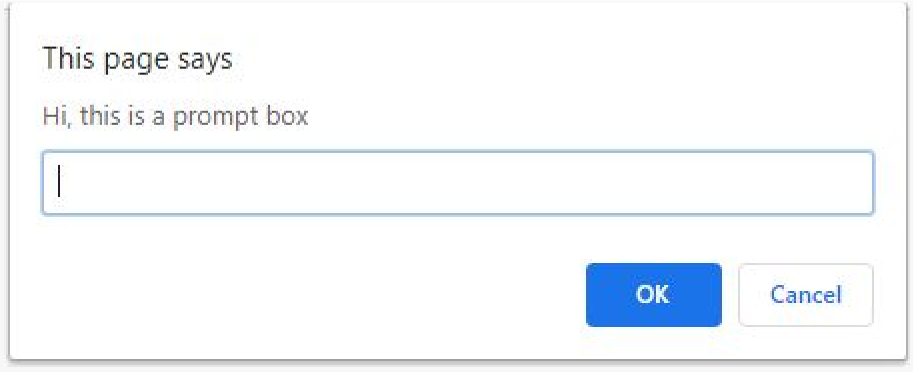


JS Window Methods Exercise



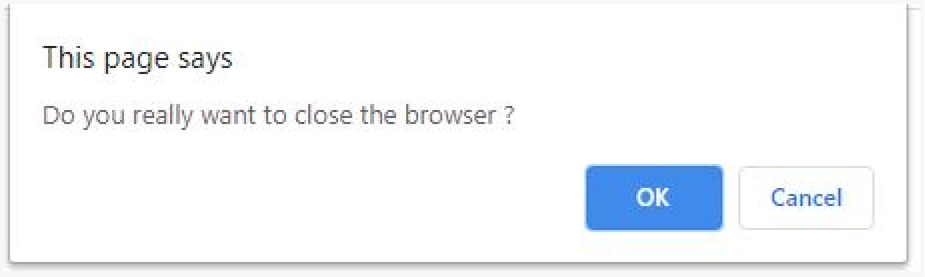
This page says

Hi, This is an alert box.



This page says

Hi, this is a prompt box



This page says

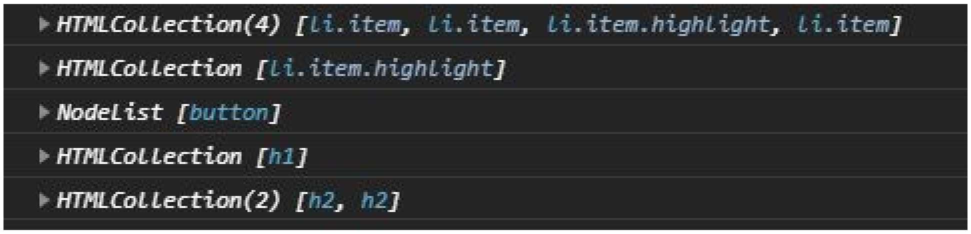
Do you really want to close the browser ?

Exercise 4:

Use the starter code for **Ex4.html** and code the following:

- Create a function **getDOMElements()** that does the following:
    - Uses the **document.getElement** methods to find and output the following elements
        - The element with the **menu ID**
        - All the elements with the class name **item**
        - The element with the class name **highlight**
        - The element with name **readBtn**
        - The **h1** elements
        - The **h2** element
- Invoke the function **getDOMElements()**

The expected output is as follows:



```
▸ HTMLCollection(4) [li.item, li.item, li.item.highlight, li.item]
▸ HTMLCollection [li.item.highlight]
▸ NodeList [button]
▸ HTMLCollection [h1]
▸ HTMLCollection(2) [h2, h2]
```

Exercise 5:

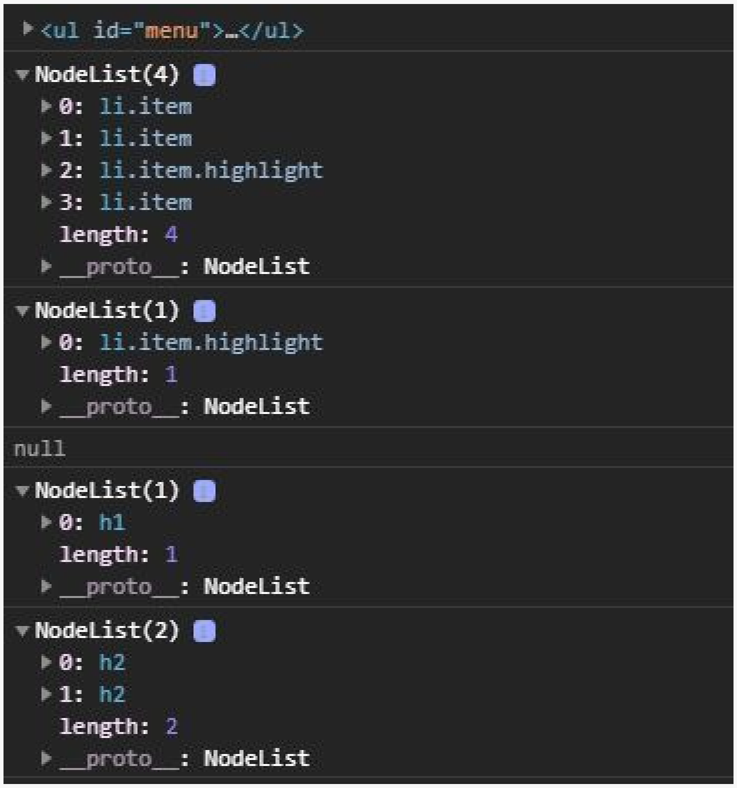
Use the starter code for **Ex5.html** and code the following:

- Implement the same requirements as in Exercise 4, but this time use the document query selector methods

https://developer.mozilla.org/en-US/docs/Web/API/Document/querySelector

https://developer.mozilla.org/en-US/docs/Web/API/Element/querySelectorAll

The output will be as follows:



```
 ▶ <ul id="menu">…</ul>
▼ NodeList(4)
   ▶ 0: li.item
   ▶ 1: li.item
   ▶ 2: li.item.highlight
   ▶ 3: li.item
     length: 4
   ▶ __proto__: NodeList
▼ NodeList(1)
   ▶ 0: li.item.highlight
     length: 1
   ▶ __proto__: NodeList
null
▼ NodeList(1)
   ▶ 0: h1
     length: 1
   ▶ __proto__: NodeList
▼ NodeList(2)
   ▶ 0: h2
   ▶ 1: h2
     length: 2
   ▶ __proto__: NodeList
```