DOM (Document Object Model)

- DOM stands for Document Object Model
- Browsers while browsing a HTML page will build an internal model of the HTML page called the Document Object Model
- Download the Screens-hot demonstrating DOM structure from here.
 - Demonstrate the above in a DOM tab of Firebug by launching a created HTML page Click <u>here</u> to download the file
- The following examples will demonstrate how the JavaScript uses JavaScript Expressions for locating the HTML elements which are represented as DOM objects:
 - document.title Refer file for Demonstration
 - document.write Refer file for Demonstration
 - Demonstrate how DOM can change the elements dynamically and we are going to use DOM for locating elements Refer file for Demonstration
 - document.getElementById() Refer file for Demonstration
 - document.getElementById().innerHTML Refer file for Demonstration
 - document.getElementsByTagName() Refer file for Demonstration
 - document.getElementsByClassName() Refer file for Demonstration
 - document.getElementsByName() Refer file for Demonstration
- Demonstrate locating an element using DOM in Selenium IDE (Demonstrate using Button2 button in omayo website)
 - document.getElementById("but2")
 - dom = document.getElementById("but2")
- Locating different elements using dom: (Demonstrate
 - at http://compendiumdev.co.uk/selenium/basic web page.html)
 - Use DOM tab as a reference to understand the below Absolute structure
 - Absolute Way:
 - Locating whole web page document.documentElement
 - Locating Web Page body document.body
 - Locating first p tag document.body.childNodes[1]
 - Locating second p tag document.body.childNodes[3]
 - Relative Way:
 - Locate whole web page document.getElementsByTagName('html')[0]
 - Locate head portion document.getElementsByTagName('head')[0]
 - Locate body portion document.getElementsByTagName('body')[0]
 - Locate first p tag document.getElementsByTagName('p')[0]
 - Locate second p tag document.getElementsByTagName('p')[1]
 - (Demonstrate at http://omayo.blogspot.in/)
 - Locate image tag dom=document.getElementsByTagName('img')[31]
 - Locating Using id value of an element document.getElementById('but2')
 - Locate using name value of elements document.getElementsByName('gender')[0]
 - Locate using class value of elements document.getElementsByClassName('classone')[0]
 - Locating the hyperlinks document.links[10]
 - Using DOM with table
 - Locate 'pune' cell in the table document.getElementById('table1').getElementsByTagName('tr')
 [2].getElementsByTagName('td')[2]
 - Using DOM with Form
 - Locate HTML form document.form1
 - Locate elements in the form document.form1.getElementsByTagName('input')[0]
 - Locate elements in the form document.form1.getElementsByTagName('input')[1]
 - Locate elements in the form document.form1.getElementsByTagName('button')[0]
 - HTML DOM Properties and Methods https://www.w3schools.com/jsref/dom_obj_all.asp