**Assignment Week 11: JavaScript’s DOM Manipulation**

1. **Part 1: DOM CRASH COURSE PART 1:**

1.1, Fill in this table:

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| **Selectors** | **Example Syntax** | **Notes for this Selector** |
| getElementById() | **Syntax**: *document.getElementById(elementID)*  Examples:  (Get the element with the specified id:)  document.getElementById(‘header’);  (Get the element and change its color:)  var headerTitle = document.getElementById(‘header-title);  myElement.style.color = ‘red’;  (Just change its color:)  document.getElementById(‘header’).style.color = ‘red’; | Parameters:   * Id: (required) The id value of an element   Return value: (object)   * The element with the specified id * Null if the element does not exist |
| getElementsByClassName() | Syntax:  *document.getElementsByClassName(*classname*)*  Examples:  (Get all elements with class= “example”:)  const collection = document.getElementsByClassName("example");  (Get all elements with both the “example” and “color” classes:)  const collection = document.getElementsByClassName("example color"); | Parameters:   * Classname (required): The class name of the elements.   Return value: (object)   * An [HTML Collection](https://www.w3schools.com/jsref/dom_obj_htmlcollection.asp) object. A collection of elements with the specified class name. The elements are sorted as they appear in the document. |
| getElementsByTagName() | Syntax:  document.getElementsByTagName(tagname)  Examples:  (Get all elements with the tag name “li”:)  const collection = document.getElementsByTagName("li");  (Get all elements in the document:)  const collection = document.getElementsByTagName("\*"); | Parameter:   * Tagname (required):   The tagname of the elements  Return Value (object):   * An HTML Collection object |
| querySelector() | Syntax:  document.querySelector(CSS selectors)  Examples:  (Get the first <p> element: )  document.querySelector("p");  (Get the first element with class = “example”: )  document.querySelector(".example"); | Parameters:   * CSS Selectors (required):   One or more CSS selectors  CSS selectors select HTML elements based on id, classes, types, attributes, values of attributes etc.  Return Value: (object)   * A NodeList with the first element that matches the CSS selector(s). If no matches are found, null is returned. |
| querySelectorAll() | Syntax:  *document.querySelectorAll(*CSS selectors*)*  Example:  (select all elements with class= “example”:)  document.querySelectorAll(".example"); | Parameters:   * CSS Selectors (required):   One or more CSS selectors  CSS selectors select HTML elements based on id, classes, types, attributes, values of attributes etc.  Return Value: (object)  A NodeList with the first element that matches the CSS selector(s). If no matches are found, null is returned. |
|  |  |  |

For the Notes for this Selector column, you can write one of these two info:  
 +, A description for the selector (what is the parameter, what is the return value)

+, what are the differences of this selector compared to other selectors

1. **Part 2: DOM CRASH COURSE PART 2:**
2. **Part 3: DOM CRASH COURSE PART 3:**
3. **Part 4: DOM CRASH COURSE PART 4:**