

Lab 6.1: JavaScript Objects and DOM manipulation

Resources: Watch lecture videos 6.1 (uploaded -on 14th February) and 6.2 (to be uploaded on 16th February). Go through lecture slide 6.1.

Purpose and Grade (20 points): Attendance for lectures 6.1 and 6.2 (If you are marked absent, that will be replaced with “present” once this assignment is submitted)

Guidelines:

1. Object and DOM manipulations were taught on 14th February – lecture 6.1
2. Classes and printing JS objects and properties from code to HTML as string output (template literals) will be taught in lecture 6.2 on 16th February, Thursday
3. Take help from the GitHub resource I shared last week (check week 05’s welcome announcement) - <https://github.com/LinkedInLearning/javascript-essential-training-2832077>

Description:

Part 01: Class and Object Creation

- Create two Classes named “Student” and “Courses” (**lecture 6.2**)
 - Courses type object is a property of the “Student” class (nested objects) (**lectures 6.1 and 6.2**)
- Define multiple properties (with different data types) to describe the classes (**lectures 5.1, 6.1, and 6.2**)
- Set their values (different data types) with constructor calls (**lectures 5.1, 6.1, and 6.2**)
- Create multiple instances of students and courses objects (**lecture 6.1**)
- Print your objects and their properties on the browser as string output by accessing the entire object and its specific properties by using template literals (**lecture 6.2**)

Part 02: DOM Manipulation and Object/properties printing on the website with JavaScript (follow the demo from Lecture 6.1)

- Find an HTML element and add two different HTML classes to that element (<https://developer.mozilla.org/en-US/docs/Web/API/Element/classList>)
- Remove only one of the new HTML classes (<https://developer.mozilla.org/en-US/docs/Web/API/Element/classList>, https://www.w3schools.com/howto/howto_js_remove_class.asp)
- Append a new attribute to an element (for example, add a border style to an existing image. Hint: <https://stackoverflow.com/questions/35190633/append-new-attribute-with-setattribute>)
- Request the values of the attributes you added (hint: using `hasAttribute()`, <https://developer.mozilla.org/en-US/docs/Web/API/Element/hasAttribute>)
- Change the value of the attribute (`setAttribute` - <https://developer.mozilla.org/en-US/docs/Web/API/Element/setAttribute>)
- Add some inline CSS to an element (hint- https://www.w3schools.com/jsref/met_element_setattribute.asp)

