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| **Objective**: The objective of this exercise is to:   1. Learn and practice the concepts of JavaScript 2. Access DOM from JavaScript 3. Write and debug JavaScript Method (function)   **Submit**: screenshots, your html file and a link to your web page  You **may** discuss this with your fellow students or the instructor. |

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| **Name:** | **Andrew Boothe** |

# Part #1: JavaScript Tutorial

*Estimated time: 15-30 minutes*

**This week’s PowerPoint**

**Exercise:** Use the following

1. Slide 4: How to include inline JavaScript
2. Slide 8: Writing into the document (creating html dynamically)
3. Slide 12: Event handling
4. Slide 16: Simple variables and For Loop
5. Slide 24: More Functions
6. Slide 25: Canvas

Optional: [https://www.w3schools.com/js/default.asp (Links to an external site.)](https://www.w3schools.com/js/default.asp (Links%20to%20an%20external%20site.))

1. Review the JavaScript information
2. Make sure you understand enough to implement the assignment
3. Nothing due for this

# Part #2: Simple JavaScript Page

*Estimated time: 45-60 minutes*

**Exercise:**

* All work will be done in ~/public\_html/cse383/lab7
* Create a file call called index.html  starting with my code.
* You will write inline (internal) javascript (no external file)
* **Note: NOTHING WILL BE OUTPUT BY THE HTML, ALL OUTPUT ON the SCREEN MUST COME FROM JAVASCRIPT**

1. **Write** out the following using JavaScript
   1. Assignment in h1
   2. Name in h2
   3. Date in h3
   4. 3 Buttons defined below

<button type="button" onClick="doRectangle();">Rectangle</button>

<button type="button" onClick="doTime();">Time</button>&nbsp;

<button type="button" onClick="doCanvas();">Blue Square</button>

* 1. **See PowerPoint slide 8**

1. Create a **function** (doRectangle) which does the following
   1. Loop 3 times
      1. Dynamically **Write** (do **not** create, and then modify) a div with a unique id with an image inside the div that has a source of: <https://picsum.photos/100/150>
   2. **See PowerPoint slide 12**
2. Call doRectangle() to display the 3 images **(They must all be different images)**
   1. Test this using the first button created in Part 1.d
   2. Note: If you just put in the image url, each image will be the same. Why? How can you fix it so that each image (which are randomly generated) is different?
   3. Hint: **nonce**
3. Create a function called doTime which will use the alert method to display the current date and time.
   1. Test it using the second button you created in Part 1.d
   2. **See PowerPoint slide 12**
4. Create a function called doCanvas which will use the JavaScript canvas to display a filled rectangle in blue at location 50,300 for size of 100,100
   1. Test it using the third button you created in Part 1.d
   2. **See PowerPoint slide 26**

Starting Template:

<!DOCTYPE html>

<!--

CSE 383

Name:

Assignment: Lab7

Description:use JavaScript to create page

-->

<html lang="en">

<head>

<meta charset="utf-8">

<title>CSE 383</title>

</head>

<body>

<script language="JavaScript">

// put your script code here to fulfill the assignment

</script>

</body>

</html>

# SUBMIT:

* Screenshot
  + Attach a screenshot of your completed web page
* File
  + Attach the html file
* Link
  + Add the link to the web page in the text area

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, application, Word

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Graphical user interface, text, application, email

Description automatically generated