

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.

Name:

Part #1: JavaScript Tutorial

Estimated time: 15 minutes

Option 1: Optional review this week's PowerPoint

Exercise: Review 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 25: More Functions
5. Slide 26: Canvas

<https://www.w3schools.com/js/default.asp> (Links to an external site.)

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)
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- **Note: NOTHING WILL BE OUTPUT BY THE HTML, ALL OUTPUT ON SCREEN MUST COME FROM JAVASCRIPT**

1. Write out your class details using JavaScript
 - a. Assignment in h1
 - b. Name in h2
 - c. Date in h3
 - d. Write out the following

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

e. See PowerPoint slide 8

2. Create a **function** (doPicture) which does the following
 - a. Loop 3 times
 - i. Dynamically **Write** (not create) a div with a unique id with an image inside the div that has a source of:
<https://picsum.photos/100/150>

b. See PowerPoint slide 12

3. Call doPicture() to display the 3 images (**They must all be different images**)
 - a. 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?
 - b. Hint: **nonce**

4. Create a function called doTime which will use the alert method to display the current date and time.
 - a. Test it using the button you created in Part 1.d

b. See PowerPoint slide 12

5. Use the JavaScript canvas
 - a. Display a filled rectangle in blue at location 50,300 for size of 100,100

b. 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