

Working on Assignment

JavaScript and the DOM



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Finish



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JavaScript and the DOM (worth 5 points)

(worth 5 points)

Objectives:

- Install your development environment
- Follow the Program Guidelines for this course
- Review JavaScript and how to access the DOM

Material from Module Sections:

Development Environment

templateTransitional.html

Program Guidelines

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Create a web application that reads the user's name and greets the user by name when she presses a button. All of this interaction takes place on the one document window. In order to become accustomed to accessing the DOM elements of your web page from JavaScript, your page must be created entirely using JavaScript. In order to receive full credit for this assignment, your html <body> tag will contain just <p> or <div> tags, and nothing else. All other html tags will be created by your external JavaScript file. For this one assignment, your JavaScript must manipulate the DOM directly, and not use document.write() nor innerHTML. You are also not allowed to use any alert boxes for this assignment.

This assignment may also be different from other web page design projects you have worked on, because you must follow all of the guidelines in the "Program Guidelines." For example, all JavaScript code will be in file(s) separate from your html document. Also, any styles will also be in a separate file. Your JavaScript must be well organized into logical functions that may be reused.

Every student's html document will look like this, except with the boldface parts personalized:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<!--
```

Author: **Put your name here**

Class: COIN 71

Filename: **templateTransitional.html**

Date Created: **date goes here**

**type comment here telling WHAT this web page does**

```
-->
```

```
<head>
```

```

<title> Your title goes here </title>

<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />

<script language = "JavaScript" type = "text/javascript" src= "yoursource.js" >

</script>

<link rel="stylesheet" href= "yourstyles.css" type="text/css" />

</head>


<body>

    <!-- You can decide how many p or div tags to have,
         and give them appropriate names and id's -->

    <p id = "p1" id = "p1"> </p>

    <p id = "p2" id = "p2"> </p>

    <p id = "p3" id = "p3"> </p>

</body>

</html>

```

### Steps:

1. Install your development environment, as listed in handout.
2. Sketch out the user interface on a piece of paper. Make sure that the information on the screen always makes sense to a user.
3. Write the JavaScript that builds the web page by creating DOM elements.
4. Thoroughly test your page, and review it to make sure that it follows the Program Guidelines for this course, and that it meets the requirements for this assignment.
5. Upload all of your code files to the CTIS webserver called losaltos.fhda.edu. Then submit a link to your html file through the assignment submission in our Etudes ng website.

### Hint:

*You may find the following JavaScript function useful in your solution*

```

// Creates a new node of type "element", appends it to "parent".

// Sets the name and id attributes of the new node to "nameId".

// If "text" is present, this also creates a text node with

// "text" in it and appends it to the new node.

// Returns the new node.

```

```
function addNode(parent, element, nameId, text)
{
    var newNode = document.createElement(element);
    parent.appendChild(newNode);
    newNode.setAttribute("id", nameId);
    newNode.setAttribute("name", nameId);
    if (text != "")
    {
        var textNode = document.createTextNode(text);
        newNode.appendChild(textNode);
    }
    return newNode;
}
```

## Challenge:

If the user changes the name that they type in, your program should take away the old greeting and replace it with a new greeting.



## Answer



Continue Later



## Finish



## Instructions