

Quiz 1 for IT 238

Fall 2024

For multiple choice (1 point each), circle the best answer.

1. A function is defined and assigned to the variable **calculate**. The expression for running the statements defined in the function is
 - a) **calculate**
 - b) **calculate.click**
 - c) **calculate.exec()**
 - d) **calculate()**
2. An assignment statement
 - a) evaluates an expression on the right-hand side of the equals sign and then assigns it to the place in computer memory represented on the left-hand side.
 - b) attaches a variable to a value from an expression.
 - c) is processed from left to right.
 - d) erases the contents of the elements on the right-hand side of the equals sign before it does anything else.
3. Assume that a text field has been coded in an html file with the id of **colorBox**. The expression **document.getElementById("colorBox")** refers to
 - a) the value the user has typed in the text field.
 - b) the html content in the corresponding label tag.
 - c) the DOM object created by coding the text field.
 - d) the size of the text field.
4. Assume that a button has the id **runButton**. Which statement will cause the label of the button to change to "Press me Again!":
 - a)

```
click = function() {  
    document.getElementById('runButton').value = 'Press Me Again!';  
});
```
 - b)

```
document.getElementById('runButton').addEventListener('click', function() {  
    document.getElementById('runButton').value = 'Press Me Again!';  
});
```
 - c)

```
runButton.click = function() {  
    document.getElementById('runButton').value = 'Press Me Again!';  
});
```
 - d)

```
document.getElementById('runButton').addEventListener('click', function() {  
    document.getElementById('runButton') = 'Press Me Again!';  
});
```

5. The following questions refer to the HTML code below (8 points, 2 each):

```
<h1 id="header">User Entry</h1>

<p id="first">Entries</p>
<p><label for="options">Choices</label>
<select id="options">
  <option value="1">Fair</option>
  <option value="2">Good</option>
</select></p>

<p><input type="button" id="init" value="Start" /></p>

<p><input type="text" id="help" size="10" /></p>

<p id="items">Summary Results</p>
```

Indicate how the Chrome JavaScript console would respond if you were to type in each of the following (if you are not sure of the exact characters, do the best you can or explain in English for possible partial credit).

- a) `document.getElementById("init").value`
- b) `document.getElementById("items").innerHTML`

What would happen to the page if the following code were entered into the console:

- c) `document.getElementById("help").size += 10;`
- d) `document.getElementById("header").style.color = "red";`

6. Referring to the HTML code in the last question, provide the JavaScript code that does the following when the “Start” button is pushed:

- If “Fair” is selected in the menu, the contents in the last p tag (id = ‘items’) changes to green.
- Otherwise (i.e. “Good” is selected), the contents in the last p tag changes to blue.

Write your code below. (4 points)