

INT222 Quiz 6

Name: _Solution_

Instructions:

Complete all questions in the spaces provided (the number of lines provided does not indicate the length of the code required). This quiz is worth 5% of your final mark and you will have exactly 30 minutes to complete it.

Question 1 – Function (5 Marks):

Write a **JavaScript function** called "**addToList**" that takes **2 parameters**: a **string** containing the **id** of an HTML List (ie: ``, or `` element) and a **string** containing **plain text**. Your function will append a list item containing the provided text to the specified list (**id**). Note: the `element.innerHTML` property is **NOT allowed**.

Usage [Example](#) (do not hardcode these values):

Existing List (with id="abc")

- Apple
- Orange

After calling `addToList("abc","Banana");`

- Apple
- Orange
- Banana

```
function addToList(listID, text){  
  var elem = document.createElement("li");  
  var text = document.createTextNode(text);  
  elem.appendChild(text);  
  
  document.querySelector("#" + listID).appendChild(elem);  
}
```

Question 2 – Function (4 Marks):

Write a **JavaScript function** called "**highlightElements**" that takes **1 parameter**: a **valid CSS Selector** targeting **1 or more elements**. Your function will add the class "**highlight**" to all elements specified using the provided selector.

Usage [Example](#) (do not hardcode these values):

Existing element

```
<p class="show">Hello <span>World</span></p>
```

After calling **highlightElements("p.show span");**

```
<p class="show">Hello <span class="highlight">World</span></p>
```

```
function highlightElements(selector){  
  var elements = document.querySelectorAll(selector);  
  
  for(var i=0;i<elements.length;i++){  
    elements[i].classList.add("highlight");  
  }  
}
```

Question 3 – JavaScript (5 Marks):

Recreate the following **HTML element** in **JavaScript** using **only document object methods** (ie. **WITHOUT** the `element.innerHTML` property). Store the newly created element in a variable called **"elem"**.

Element:

```
<a href="http://www.google.ca" target="_blank">Google</a>
```

```
var elem = document.createElement("a");
var text = document.createTextNode("Google");
elem.appendChild(text);

elem.setAttribute("href", "http://www.google.ca");
elem.setAttribute("target", "_blank");
```

Question 4 – JavaScript (4 Marks):

Given the following JavaScript code, add the following functionality (**events**) to all elements with the class **"interactive"** inside the `window.onload` event handler:

- when the **mouse** moves **over the element**, call a function that outputs the text **"mouse over"** to the **console**
- when the **mouse** leaves the element, call a function that outputs the text **"mouse out"** to the **console**

```
window.onload = function(){

    var elements = document.querySelectorAll(".interactive");

    for(var i=0; i < elements.length; i++){
        elements[i].onmouseover = function(){ console.log("mouse over"); };
        elements[i].onmouseout = function(){ console.log("mouse out"); };
    }

};
```