**JavaScript Assessment: Please answer the following questions:**

1. In the following code snippet can you please predict the output and / or

explain the error?

<!DOCTYPE html>

<html>

<body>

<h2> <> Sample: TEST MY JS</> </h2>

<script>

var studentName = "Margaret S "; // String 'Margaret SE' stored in studentName

var studentName; // variable is declared again

document.getElementById("studentName").innerHTML =

"Redeclaring the variable will not lose the value!.<br>"

+"Here the value in studentName is "+ studentName;

</script>

</body>

</html>

**ANSWER:**

1. There is no element with id “studentName”
   1. <p id=’studentName’></p>
2. The value of h2 has extra empty tags.
   1. <h2>Sample: TEST MY JS</h2>
3. The variable studentName was declared twice which is considered as bad practice.
   1. var studentName = “Margaret S” // can be the only variable declaration
4. In the following code snippet can you please predict the output and / or

explain the error?

<!DOCTYPE html>

<html>

<body>

<h2> <> Sample: TEST MY JS</> </h2>

<p style='text-decoration:underline'>Example Const Variable </p>

<p id="display"></p>

<script>

const first\_num;

first\_num =1000;

document.getElementById("display").innerHTML = "First Number:"+ first\_num;

</script>

</body>

</html>

**ANSWER:**

1. Declaration of variable and its value should be done in a single line.
   1. const first\_num = 1000;
2. What browsers are you using for debugging and how?

**ANSWER:**

\* Chrome Developer tool

\* I use the Chrome Dev tools for Javascript debugging such as checking if there are values being returned, what type of errors are being returned.

1. What’s the difference between a variable that is: null, undefined or

undeclared? How would you go about checking for any of these states?

**ANSWER:**

1. **null** is the intentional absence of an object value.
   1. **if (myVar === null) {   
      // line of code  
      }**
2. **undefined** is variable that is not assigned a value.
   1. **if (myVar === undefined) {  
       // line of code  
      }**
3. **undeclared** is a variable which is not declared as const, let, or var. Usually returns a ReferenceError.

**try {**

**if (undeclaredVar === undefined) {**

**// This won't be executed if undeclaredVar is not declared**

**}**

**} catch (error) {**

**if (error instanceof ReferenceError) {**

**// undeclaredVar is not declared**

**}**

**}**

Question: For this code block:

1. Describe the basic functionality of this function?

2. Why is the preventDefault() function necessary here?

$("#filter\_button\_up").on('keydown', function(e) {

if (e.keyCode == 9 || e.which == 9){

e.preventDefault();

$("#newField").focus();

}

});

7

Answer:

1. The jQuery event handler checks if the key code associated with the pressed key is 9 (which corresponds to the "Tab" key) using both **e.keyCode** and **e.which.** It prevents the default behavior of the "Tab" key press and then sets focus on an element with the ID "newField.".

2. The **e.preventDefault()** function is necessary to prevent the default behavior associated with the "Tab" key within a form or a focusable element.

Question: What is the purpose of this setTimeout function:

<input name="addressline" id="inputaddress" placeholder="Enter street

address, city, state or zip code" />

<select id="country" name="country" class="search-box">

<option value="CA">CA</option>

<option value="US">US</option>

<option value="PR">Puerto Rico</option>

</select>

<script>

setTimeout(function(){

var searchCountry = document.getElementById('country')

for (var i = searchCountry.length - 1; i >= 0; i--) {

if (countryOptions[i].value === 'US') {

countryOptions[i].textContent = 'USA'

}

}

$('#inputaddress').focus();

}, 800);

</script>

**Answer:**

The **setTimeout** function in the provided code is used to introduce a delay of 800 milliseconds before executing the specified function. In this case, the purpose of the setTimeout function is to wait for a short period (800 milliseconds) before performing some actions on the DOM elements.

Question: How would you make the following form ADA compliant?

<form id="contact">

<input type="text" name="name" placeholder="Enter name">

<select name="state">

<option>CA</option>

<option>IL</option>

<option>TX</option>

8

</select>

<a href="javascript:void(0);">Submit</a>

</form>

Answers:

* + - 1. Add labels for form controls.
      2. Use a button for form submission instead of a link
      3. Improve select options by adding more descriptive text

Question: what html code will be generated by the following block of code?

$(function(){

const featuresContainer = document.createElement("li");

featuresContainer.classList.add('ProductCore-featItem');

...

const leftContainer = document.createElement("span");

...

const rightContainer = document.createElement("span");

...

featuresContainer.appendChild(leftContainer);

featuresContainer.appendChild(rightContainer);

...

})

**Answer**:

<li class="ProductCore-featItem">

<span> <!-- Content inside leftContainer goes here --> </span>

<span> <!-- Content inside rightContainer goes here --> </span>

</li>