QUESTION 313
You have the following markup.

```
<div id="yellow" style="background-color:yellow">My Yellow Content</div>
```

You need to rotate the div programmatically by 45 degrees.
Which line of code should you use?

A. document.getElementById("yellow").style.rotate(45);
B. document.getElementById("yellow").style.transform = "rotate(45deg)";
C. document.getElementById("yellow").style.rotate3d("45deg");
D. document.getElementById("yellow").style.rotateX(45);

Answer: B
Explanation:
https://www.w3schools.com/jsref/prop_style_transform.asp

QUESTION 314
You have a webpage that uses HTML5.
You plan to add the following text to the bottom of the page as a footer.
Our Address!
123 Here St.
Seattle, WA
Email: info@fabrikam.com
Copyright Fabrikam, Inc.
You need to use HTML5 to maximize Search Engine Optimization (SEO) for the page.
How should you structure the content at the bottom of the page?

A.
```
<div class="footer">
    <address>
        <p>Our Address!</p>
        <p>123 Here St.</p>
        <p>Seattle, WA</p>
        <p>Email: info@fabrikam.com</p>
    </address>
    <p>Copyright Fabrikam, Inc.</p>
</div>
```

B.
```
<div class="footer">
    <div class="address'">
        <p>Our Address!</p>
        <p>123 Here St.</p>
        <p>Seattle, WA</p>
    <div>
    <p>Email: info@fabrikam.com</p>
    <p>Copyright Fabrikam, Inc.</p>
</div>
```

C.
```
<"footer">
    <div class="address'">
        <p>Our Address!</p>
        <p>123 Here St.</p>
        <p>Seattle, WA</p>
        <p>Email: info@fabrikam.com</p>
        <p>Copyright Fabrikam, Inc.</p>
    </div>
</footer>
```

D.
```
<footer>
    <address>
        <p>Our Address!</p>
        <p>123 Here St.</p>
        <p>Seattle, WA</p>
        <p>Email: info@fabrikam.com</p>
    </address>
    <p>Copyright Fabrikam, Inc.</p>
</footer>
```

Answer: D

QUESTION 315
You are creating a webpage by using HTML5.
You need to allow users to choose between the following three options:
- IT Professional
- IT Developer
- IT Manager
The users must be limited to one option.
Which markup should you use?

A.
```
<input type="radio" name="profession1" value="IT Professional">IT Professional<br>
<input type="radio" name="profession2" value="IT Developer">IT Developer<br>
<input type="radio" name="profession3" value="IT Manager">IT Manager<br>
```

B.
```
<input type="checkbox" name="profession" value="IT Professional">IT Professional<br>
<input type="checkbox" name="profession" value="IT Developer">IT Developer<br>
<input type="checkbox" name="profession" value="IT Manager">IT Manager<br>
```

C.
```
<input type="radio" name="profession" value="IT Professional">IT Professional<br>
<input type="radio" name="profession" value="IT Developer">IT Developer<br>
<input type="radio" name="profession" value="IT Manager">IT Manager<br>
```

D.
```
<input type="radio" name="profession" value="IT Professional, IT Developer, IT Manager"><br>
```

Answer: C
Explanation:
https://www.w3schools.com/html/html_forms.asp

QUESTION 316
You have the following code:

```
var objStr = "[1, 2, 3, 4]";
```

You need to convert objStr into an array.
Which line of code should you use?

A. var jsObject = JSON.stringify(objStr);
B. var jsObject = Array.valueOf(objStr);
C. var jsObject = $.makeArray(objStr);

D. var jsObject = $.parseJSON(objStr);

Answer: D

QUESTION 317
NOTE: This question is part of a series of questions that presents the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section. you will not be able to return to it. As a result, these questions will not appear in the review screen.
You have the following HTML5 and CSS3 markup within a webpage.

```
<nav id="mainmenu" class="page-nav">

    <div id="navlist" class="container">

        <a href="index.html">Home</a>

        <a href="register.html">Register</a>

    </div>

</nav>
```

You need to set the background color of the `Home` link to yellow. The solution can affect the color of the other elements.
Solution: You use the following style:

```
<style>
    div a:last-child ~ a{
        background-color: yellow;
    }
</style>
```

Does this meet the goal?

A. Yes
B. No

Answer: B

QUESTION 318
You are developing a web form that includes the following HTML.
<input id="txtValue" type="text" />
You need to ensure that a value is entered into txtValue before the form is submitted.
Which code segment should you use?

A.
```
function validate() {
    var name = $("#txtValue").val();
    if (name ==null | | name == " ")
     alert ("please enter valid value");
     return;
}
```

```
B.    function validate() {
          var name = $("#txtValue").val();
          if (name ==null && name == " ")
           alert ("please enter valid value");
           return;

      }
C.   function validate() {
          var name = $("#txtValue");
          if (name ==null | name == " ")
           alert ("please enter valid value");
           return;

      }
D.    function validate() {
          var name = $("#txtValue").val();
          if (name ==null & name == " ")
           alert ("please enter valid value");
           return;

      }
```

Answer: A
Explanation:
Check if text is a null value or an empty string.
Reference: https://www.w3schools.com/jsref/dom_obj_text.asp

QUESTION 319
You are developing an application in HTML5.
The application contains the following HTML markup.

```
<div>
    <h1>Resources</h1>
    <a href= "http://contoso.com/people.aspx">People</a>
    <a href="http://contoso.com/orgProducts.aspx">Products</a>
    <a href="http://wiki.contoso.org">Resources</a>

    ...

</div>
```

You need to ensure that all of the links referencing domain names ending in.org are displayed in red text.
What should you do?

A.   a CSS pseudo-class
B.   a CSS attribute selector
C.   a jQuery event callback
D.   a JSON stringify function

Answer: B
Explanation:
Use the CSS attribute selector
a[href*=".org"] { color: red; }
References:
https://developer.mozilla.org/en-US/docs/Web/CSS/Attribute_selectors

QUESTION 320

You write the following JavaScript code. (Line numbers are included for reference only.)

```
01 <script>
02 …
03 bestStudent=new Student ("David Hamilton");
04 document.write (bestStudent.fullname + "is registered.");
05 </script>
```

You need to write a function that will initialize and encapsulate the member variable fullname.
Which are two possible code fragments that you can insert at line 02 to achieve the goal? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

A. function Student(someName) {
   fullname=someName;
   }
B. function Student (someName) {
   var fullname=someName;
   }
C. function Student (fullname) {
   This.fullname=fullname;
   }
D. function Student (someName) {
   this.fullname=someName;
   }

Answer: BC
Explanation:
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/var

QUESTION 321
You develop an HTML5 web application. The web application contains a form that allows users to enter only their month of birth.
The value that the users enter must be numbers between 1 and 12, inclusive.
You need to implement the form element for the month of birth.
Which element should you use?

A. <input type="date" data-role="month" />
B. <input type="number" min="1" max="12" />
C. <input type="radio" value="1-12" />
D. <input type="month" itemscope="numeric" />

Answer: B

QUESTION 322
You have the following HTML Markup.

```
<figure>
   <img src="/images/ourheadquarters.jpg" />
</figure>
```

You need to ensure that the markup conforms to W3C accessibility standards.
What should you add to the markup?

A. a figcaption element within the figure element
B. an alt attribute to the img element
C. a name attribute to the img element

D. a header element within the figure element

Answer: B
Explanation:
Images should include alternative text (alt text) in the markup.
References:
https://www.w3.org/standards/webdesign/accessibility
https://www.w3.org/TR/UNDERSTANDING-WCAG20/text-equiv.html

QUESTION 323
You have the following code.

```
myLongFunction = new function () {
    ...
}
myLongFunction ()
```

You need to recommend a solution to ensure that myLongFunction is executed as a separate thread.
Which type of object should you use?

A. worker
B. reflect
C. prototype
D. eval

Answer: A
Explanation:
https://www.w3schools.com/HTML/html5_webworkers.asp