DWA_02.8 Knowledge Check_DWA2

_____

1. What do ES5, ES6 and ES2015 mean - and what are the differences between them?

ES5 (ESMAScript5)
- Added new methods to built-in objects like Array (e.g., Array.prototype.forEach, Array.prototype.map) and Object (e.g., Object.keys, Object.create).
- ES5 features are widely supported by modern browsers and are considered the baseline for JavaScript development.

ES6 (ESMAScript 6)
- Introduced several new language features, including let and const for block-scoped variable declarations.
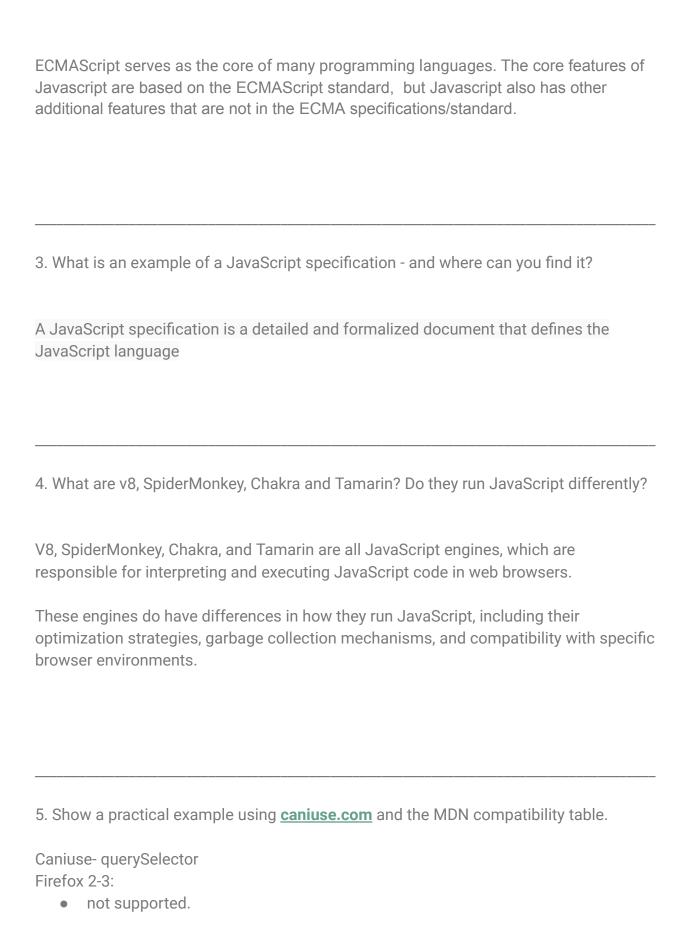- Most ES6 features are now widely supported

ES2015(ESMAScript 2015)
- ES2015 is essentially the same as ES6 but reflects the new version naming scheme adopted by ECMAScript to indicate annual releases

_____

2. What are JScript, ActionScript and ECMAScript - and how do they relate to JavaScript?

JScript is a language engineered by Microsoft as a reverse engineered Javascript. It is primarily used in web development and runs on browsers.

ActionScript is a language based on the premises of the ECMAScript and is used for creating interactive applications and games.

ECMAScript serves as the core of many programming languages. The core features of Javascript are based on the ECMAScript standard, but Javascript also has other additional features that are not in the ECMA specifications/standard.

_____

3. What is an example of a JavaScript specification - and where can you find it?

A JavaScript specification is a detailed and formalized document that defines the JavaScript language

_____

4. What are v8, SpiderMonkey, Chakra and Tamarin? Do they run JavaScript differently?

V8, SpiderMonkey, Chakra, and Tamarin are all JavaScript engines, which are responsible for interpreting and executing JavaScript code in web browsers.

These engines do have differences in how they run JavaScript, including their optimization strategies, garbage collection mechanisms, and compatibility with specific browser environments.

_____

5. Show a practical example using **caniuse.com** and the MDN compatibility table.

Caniuse- querySelector
Firefox 2-3:
- not supported.

- Released: Oct 24, 2006 - Jun 17, 2008

Safari on IOS:
- supported
- Released: Sep 18, 2023

MDN- addEventListener

Opera:
- 7 (Released 2003-01-28)
- Full support

Samsung internet:
- 1.0 (Released 2013-04-27)
- Before Samsung Internet 5.0, the type and listener parameters were optional.

_____