**Questions assignment week 4**

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**- Why is it useful to encapsulate JavaScript code in a module as described in chapter 10 of Eloquent JavaScript?**

Structure helps people who aren’t yet familiar with the code find what they are looking for and makes it easier for the programmer to keep things that are related close together.

**- Describe what asynchronous programming is and how it differs from the style of programming you used in C and Python.**

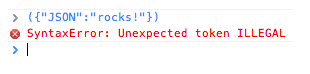
Asynchronous programming is a means of parallel programming in which a unit of work runs separately from the main application thread and notifies the calling thread of its completion, failure or progress.

**- Is JSON valid JavaScript? Describe the differences between JavaScript and JSON.**

I found this on the internet about whether JSON is valid JavaScript: *“All these years we’ve heard it over and over again: “JSON is a JavaScript subset”. Guess what? They’re wrong. Wrong, wrong, wrong. You see, the devil’s in the details, and there’s no way to avoid it: Not all JSON-formatted text is legal JavaScript code:*

*{"JSON":"rocks!"}*

*Copy the exact code above and paste it into Firebug or the Web Inspector within a pair of parentheses (required to avoid an ambiguity in JavaScript’s syntax):*

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*Wait, what? SyntaxError: Unexpected token ILLEGAL? That doesn’t make any sense! It’s just a regular object literal, how can that be a SyntaxError? Try the same code in a proper JSON parser. No problems at all.*

*Of course it’s not just a regular object literal. There’s a sneaky little Unicode character in there too: Right between “ro” and “cks!” there’s a tiny U+2028. Your browser probably doesn’t display it because it’s whitespace: LINE SEPARATOR, but it’s still there. If you replace the character with a U+2029 (PARAGRAPH SEPARATOR) you would have the exact same issue.”*

Link: <http://timelessrepo.com/json-isnt-a-javascript-subset>

Differences:

* the property names differ
* the reserved words differ