Homework week 4  
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Questions  
Answer the following questions in your own words. This assignment will only be graded pass or fail.

1. Why is it useful to encapsulate JavaScript code in a module as described in chapter 10 of [Eloquent JavaScript](http://eloquentjavascript.net/)?
2. Describe what asynchronous programming is and how it differs from the style of programming you used in C and Python.
3. Is JSON valid JavaScript? Describe the differences between JavaScript and JSON.

Answers

1. Because all code together of one program can contain a lot of rows and programming it gives overview to use modules. By doing this it will be more clear to work in/with.
2. Asynchronous programming means that the webserver requests information asynchronous. A term for this is AJAX (*Asynchronous Javascript And XML*). AJAX is a term for the design of interactive webpages, which will be retrieved from the webserver. This means that such full pages doesn’t have to be reloaded every time to get new content by using XMLHttpRequest. In C and Python we wrote quite small programms so it wasn’t really necessary. Also we used different ‘tab-pages’, which made it more clear when you was writing another program.
3. JSON is extended from JavaScript and is an language-independent data format, a syntax for storing and exchanging data. JSON is the primary data format used for asynchronous browser/server communication which is called AJAJ, largely replacing XML, which is used bij AJAX. JavaScript is a scripting language, so that’s different from JSON.  
   In JSON all keys must be quoted (must be strings by using “ “), which makes it easy for humans to read and write. The values that can be used are: stirng, number, JSON-object, an array, true, false and NULL. You can use de JavaScript eval() function to parse JSON data.

*Sources:*

*http://www.i-programmer.info/programming/theory/6040-what-is-asynchronous-programming.html*