Questions Data Processing, Interactivity

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1 oktober 2015

Opgave 1. *Why is it useful to encapsulate JavaScript code in a module as described in chapter 10 of Eloquent JavaScript?*

Oplossing. There are different reasons:

- It helps to find easily a piece of encoding.

- It provides more options of namespacing.

- This way you can use a function of another program without copypasting.

- It makes it easier to isolate pieces of code from each other.

□

Opgave 2. *Describe what asynchronous programming is and how it differs from the style of programming you used in C and Python.*

Oplossing. Asynchronous programming never waits for each operation to complete, rather it executes all operations in the first GO only. The result of each operation will be handled once the result is available. □

Opgave 3. *Is JSON valid JavaScript? Describe the differences between JavaScript and JSON.*

Oplossing. Although originally derived from the JavaScript scripting language, JSON is a language-independent data format. So JSON is valid Javascript, but not the other way around. For example, in JSON all keys must be quoted, while in object literals this is not necessary. The accepted JSON grammar of Numbers also changes, in JavaScript you can use Hexadecimal Literals, for example 0xFF, or (the infamous) Octal Literals e.g. 010. In JSON you can use only Decimal Literals. □