**Event loop workshop**

1. **Blocking vs non blocking IO:**

The following Git repository contains a simple file server.

<https://github.com/tamarstern/simpleSyncFileServer>

It supports the following operations:

list(path) - Return an array of files in the directory.

getFile(path, filename) - Returns the content of the requested file.

saveFile(path, filename, content) - saves or update the file content

deleteFile(path) – deletes a specific file.

There is a test file for testing the API located under test folder. The file written with Mocha and Chai.

This file server has a lot of blocking operations.

Please find all the blocking operations and rewrite the server to be more efficient and to work well with NodeJS non-blocking functionality.

Your success criteria are that all the tests will pass.

Use only asynchronous operations.

1. **setImmediate vs setTimeout – understand the event loop different phases :**

The goal of this exercise is to give a taste about the event loop different phases and see how they work Live. Also, the goal here is to start experiencing with asynchronous programming.

Write a simple NodeJS module which will print the following sentence:

‘hello there, world’

Please write the module under the following demands:

* Use :
  + Conole.log for one word
  + Two other words will be printed separately, each one will be scheduled by one of the following :
    - setImmediate
    - setTimeout
* Print only one word at a time
* Do not use nested functions, promises, Async/await etc or any Node.js mechanism to control the execution flow.