Lab 11 Introduction to Node.js

Given: October 31, 2018
Deadline: November 8, 2018

How you submit the work

Please share these files in the folder "<id>-<yourname>-lab11" which is in your bitbucket folder "<id>-198371-labs" that you have used to share your lab files with the teaching teams.
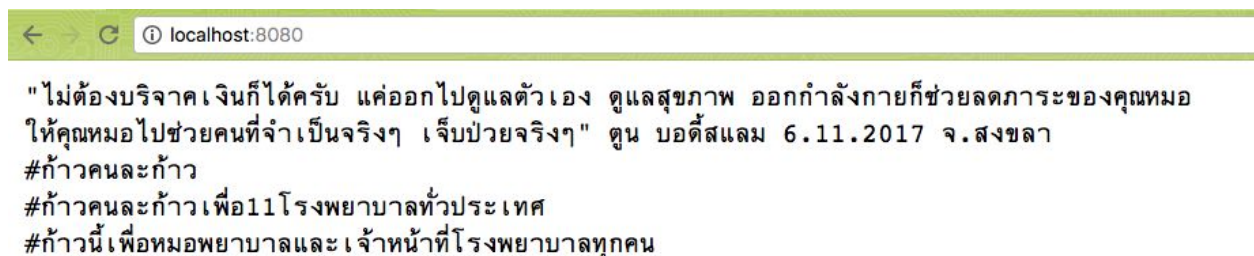
What you need to get done within lab hour

Problem 1. Call REST API (4 points)

Given file kaokonlakao.txt,   write a Node.js file, called 'ex_readfile.js', such that it reads that file and gives the response to the request as shown in Figure 1 and Figure 2.

Figure 1: Running node command to read a file

Figure 2: The browser output after running node command

What can be done after lab hours

Problem 2. Write, Read, and Parse a JSON file (6 points)

Study and install package https://www.npmjs.com/package/jsonfile Then, write a Node.js program, called 'ex_writejsonfile.js' that perform these three tasks
2.1 write JSON data to the file data.json with the content as shown in Figure 3.
2.2 read file data.json and then output to the web as shown in Figure 3.
2.3 parse the object read from file data.json and displays only the second course and the residence city to the console as shown in Figure 4.

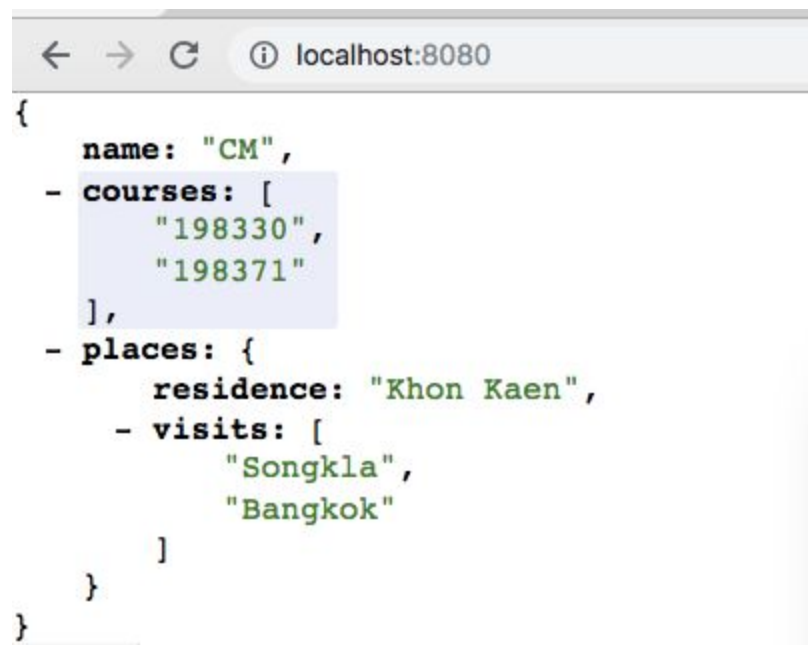The output of running program 'ex_writejsonfile.js' is shown in Figure 3.


```
←  →  C    ⓘ localhost:8080
{
    name:  "CM",
  - courses:  [
        "198330",
        "198371"
    ],
  - places:  {
        residence:  "Khon Kaen",
      - visits:  [
            "Songkla",
            "Bangkok"
        ]
    }
}
```

Figure 3: The output of the program on the browser


```
[~/Dropbox/Sites/nodejs]$  node ex_writejsonfile.js
=== The values of the second course and the residence ===
Studying 198371 living in Khon Kaen
```
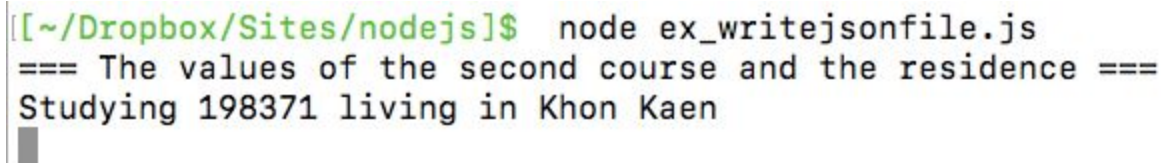
Figure 4: The output of the program on the console