# COMP 3012

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| Take-home Assignment | 1 |

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## Exercise Objective:

The purpose of this assignment is to practice the concepts and skills which are covered in Week 1, 2, 3.

You need to submit a Word/PDF for Task 1 & 3, along with a zip file for Task 2.

Task 1: Answer questions:

1. What is Node.js for?

Node.js is for server-side scripting which helps run the scripts and make work the dynamic content of the application/page, Node.js give developers to code the scripts in JavaScript. It is single threaded, runs on V8 runtime machine and also Node.js is uses asynchronous programming

1. How to run a Node.js project?

We have to make sure our machine have already installed Node.js and NPM is installed as well. After we can create our project and now install NPM in the project make sure it is running, if any additional NPM packages are needed install them as well. Mostly we also have to create a package.json file in our project folder. Finally when everything is done and accomplished we can type in command line\terminal: node yourServerName.js. After visit your: localhost: “put your port number here”.

1. Explain two ways to access a running Node.js project

One way is locally – example: http://localhost:8000 ( if our port is connected to port 8000)

Second way will be through command prompt/terminal in your pc/laptop

Task 2: Make a Node/Express.js project

Requirements:

1. Listen to port 8081
2. Response a home page (for example, index.html on <http://localhost:8081> ) showing:
   1. Your name
   2. Your student number
   3. A Link to another url (for example, <http://localhost:8081/detail.json> )
3. The second page should be a json file including all details of the courses you are currently taking

Task 3: Explain what ES6 features you used in this application, along with your code snippets

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