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February 20th 2022 [Github Repository](https://github.com/COT4930-Spring-2022-Fullstack-Web/hw3-Tommy-Las)

Full Stack Web Development COT4930

Homework #3

Objective 1:

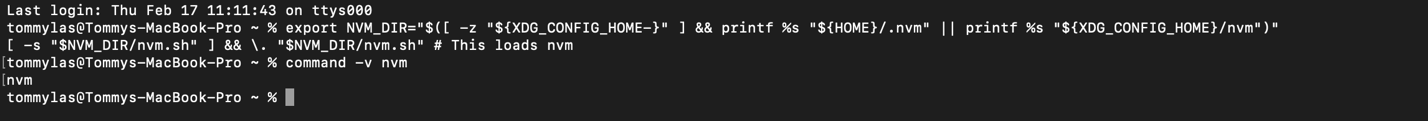
For Objective #1, I had to install nvm (Node Version Manager) and Node Js:

Installation:

Text

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Nvm installed:



Node JS Version:



Objective 2:

For this objective, I had to copy 8 of the node examples in the text-book repository. I had to run them and install packages for the ones that needed them.

craps.js: This program shows how the Math module can be used in node js. A while loop runs until the sum of two dices is either 7 or 11. Text

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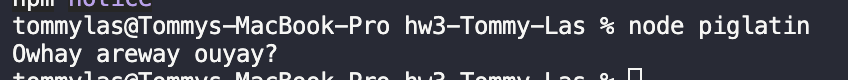
hello.js: This program just outputs “Hello Node!” to the console. It is used to show that console.log in node js is the same as javascript.



input2.js: This program gets numbers as inputs from the command line and then calculates the average of them. For example, you need to use “node input2.js 3 7 18 12”. It gets the inputs as an array. The program loops for each element in the array and adds them to the sum variable. After all of the elements in the array are reached, then the program outputs the average of all numbers. It is important to point out that each element that is input is a string, so the program converts each element into a float so it can be calculated properly.



piglatin.js: For this program I had to install an external package called pig-latin, using “npm install pig-latin”. This package translates English to the pig latin language, using the piglatin() method. When you import an external package, you will always need to use the require(‘name-of-external-package’) so it adds the module to the program.



poker.js: First, install the poker-evaluator external package using “npm install poker-evaluator.” In the beginning of the program you need to require the external package called poker-evaluator. By using the evalHand() method, you will be able to determine if the given hand is good or not. The hand must be an array

Text

Description automatically generated

rainfall.js: For this program you need to import the statistics and readline-sync external packages. The readline-sync is synchronous, which means that the program will wait until the user inputs something before continuing with the program. This program has a while loop that will run until the user inputs “99999”. If the number the user enters is less than 1, then will output to console “invalid input”. If the number is valid then it will be added to an array of integers. When the while loop is terminated, then using the statistics reduce() method, it will output the average of the array:

Text

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stats.js: This program requires the statistics package. Given an array of integers and using the reduce() method from the statistics package, the program outputs: Text

Description automatically generated

temperature.js: This program is used to show that if statements can be used in NodeJS. If the temperature is greater or equal to 103, then it will output “hot blooded”, if the temperature is less or equal to 98.6 it will output “feelin good:



I added the node\_modules folder that contains the external packages to git ignore so it is not pushed. I created the git ignore file using “touch .gitignore” and added the name of the files to be ignored.

Objective 3:

First, I had to switch versions of NodeJS, I had to install version 12.0.0 and then “nvm use 12.0.0” to switch to that version.



After, I had to install the sentiment analysis external package using “npm install sentiment.” I created the sentiment-analysis.js file and copied the example from the npm sentiment website. I also created a file called “news.txt” and I copied one title from an article I found on New York Times. Then, using the 4.14 example from the textbook, I was able to read the data from the file and analyse it using the analyse() method from the sentiment package.

Text

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Now, I had to switch node versions, using “nvm use 16.14.0” I was able to switch to this version.



I deleted the contents of node\_modules and run npm install:

Text

Description automatically generated

Now, I have to run the sentiment-analysis.js program in 16.14.0 version:

Text

Description automatically generated