HOMEWORK 1

NODE.JS MODULES. NPM

Installing Node.js & Configuring Babel with Nodemon

1. Install **Node.js** (choose any option that suits you `nvm`, `brew`, `apt`, `.exe`, etc).
2. Create a directory for the future project.
3. Use **npm** to set author name and email for **npm config**:
    a. Use `npm -l` to discover available npm commands and full usage info.
4. Initialize **package.json** using **npm** command.
5. Create the main application file **app.js**. This file will be executed on `npm start`.
6. Install the following npm packages as **devDependencies**:
    a. Babel core
    b. Babel preset env
    c. Babel preset stage 2
    d. Babel register
    e. Nodemon

    After the installation all these packages should be saved and listed in **package.json**.
7. Configure **scripts** section in **package.json** to include:
    a. **start** script which should compile **app.js** using **babel** and run it in **nodemon**.
    b. **test** script to run application tests that we will create in the future (for now it could be empty).

Adding Modules

1. Create **config** directory inside your project.
2. Create **json** module in **config** directory to store configs of application. For now add just one field **name** that stores the name of the app: *"Node.js Homework Application"*.
3. Create **models** directory.
4. Create **User.js** module in **models** directory. It should implement and export class **User** (*use **ECMAScript 2015***) with a **constructor** that logs *"User module"* to console.
5. Create **Product.js** module in **models** directory which exports **Product** class with a **constructor** that logs *"Product module"* to console.
6. In the main application file import **json** module defined in **config** directory (*use **ECMAScript 2015** as well instead of **require***) and log the name of application to console.
7. In the main application file import modules defined in **models** directory. There should be one **import** command that brings all our models to the app.
8. Create instances of **User** and **Product** classes. Appropriate messages should be logged to console.

Evaluation Criteria

1. Nothing has been done except the project's structure.
2. **package.json** has been created and contains the list of required packages.
3. All three modules have been created and the classes have been implemented.
4. The modules are imported to the main module as described in task 7 and 8.
5. **package.json "start"** script uses babel and nodemon to run the app.