DEMO NOTES FOR CREATING A WEB APPLICATION TO DEMONSTRATE REST API SERVICES

* Install Node.js from its official website
* Go to the command prompt in your folder and type ***node –version*** to check if node is successfully installed
* ***npm init***: npm is the default package manager for Node.js. Initialized using the shown command
  + package name: demo
  + description: demo for creating a rest api in javascript
  + entry point: script.js; from where process workflow will start
  + author: your name
  + Press enter for default values of all other parameters
* Meta data for application is now created. Check that you have a *package.json* file in the folder now. It has all the meta data needed for the application.
* ***npm i express***: Install express.js. It is the backend web application framework for NodeJs
* ***npm i joi***: install joi. Joi is a powerful schema description language and data validator for JS Library to validate server
* ***npm i –g nodemon***: install nodemon. Nodemon is a tool that helps develop node.js based applications by automatically restarting the node application server when file changes in the directory are detected.
* Write *script.js*—The file is in the github repository uploaded on the class website. The file comprises coding steps to send/post/put requests from client to the server. It also comprises steps of how the server should send response based on the requests
* ***node script.js*** : Go back to the terminal and start running the server now.
* To demonstrate how the application performs, we are using **postman** => A chrome plugin/desktop agent that can send requests to the server.
* Download and Install postman.
* Go to new => http services => with the server running, select the method as GET => type your server address. **localhost:8080/ => welcome message should appear**
* To display all students: Use method GET and url as  **localhost:8080/api/students**
* Similarly test out all other functions coded in script.js to explore the functionalities.