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Nodejs

- It is javascript run time environment
- It is used for server side programming
- Nodejs is not a language, or library or framework
- With the help of nodejs we can run javascript even outside the environment of browsers

Nodejs Installation

- https://nodejs.org/en
- Open gitbash and type for check installation or not
 - o Node ----->to run node via terminal---->to move out press ctrl+d or ctrl+c(2 times)
 - o Node -v ----->to check node version
 - o Npm –version ----->to check npm version

Nodejs REPL(read evaluation print loop)

- Open gitbash and type
 - o Node
 - o Global ----->its basically a object
 - .help

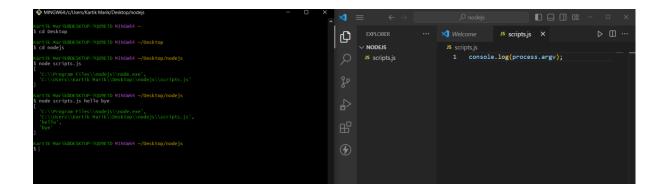
Node files

- Syntax to run any js file ---->node filename.js
- create a folder named nodejs and make a file scripts.js and perform the below activity



Process in node

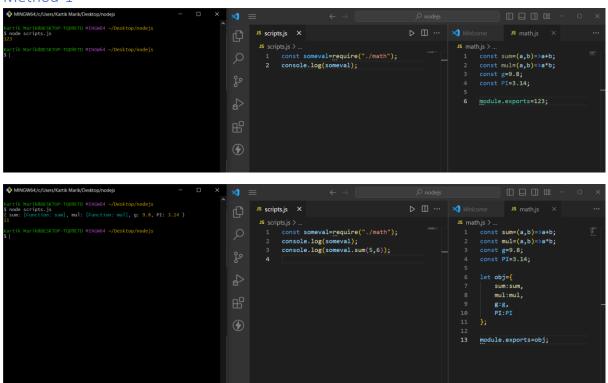
- Process---->this object provides information about and control over the current node.js process
- Process.argv----> return an array containing the command line arguments passed when node.js process was launched.
- Examples are below so do these steps
 - o Open terminal and type below statements
 - Node
 - Process
 - o Process.version
 - o Process.release
 - Process.cwd
 - Process.argv



Export in files

• Make two files name scripts.js and math.js inside folder nodejs to perform below exmples

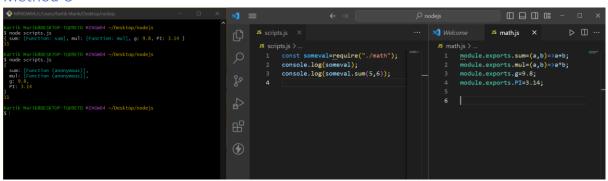
Method-1



Method-2

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Method-3



Export in directories

- Make another folder named fruits inside nodejs folder
- Make three files inside fruits folder named
 - o Apple.js
 - o Banana.js
 - o Orange.js
 - Note write similar thing also inside orange.js file and run it.

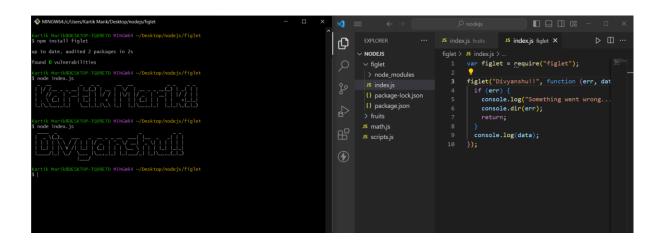
NPM-(node package manager)

- Npm is the standard pacakage manager for node.js
- Library of pacakages
- Command linetool
- Npm is preinstalled comes with node so to verify write below code in gitbash
 - o Npm
- Synatax to install any pacakage
 - O Npm install <-pacakage name->
- https://www.npmjs.com/ ----->search any pacakages
 - Exaples of some pacakages are:-

- Reactjs
- Expressjs
- Figlet
- Give-me-a-joke

Examples-1 to demonstrate of installing pacakage and using it

- Create a folder named figlet inside nodejs
- Go that that folder location by terminal
- Npm install figlet
- Create index.js file inside figlet folder and run below code
- https://www.npmjs.com/package/figlet



Note---> three files when we install any pacakage

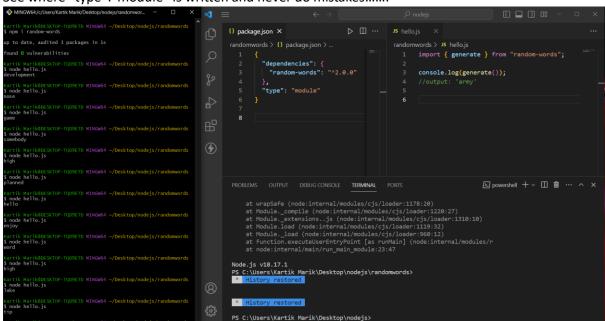
- Node_modules---->the node_modules folder contains every installed dependency to your project
- Pacakage-lock.json----->it records the exact version of every installed dependency, including its sub dependencies and their versions
- Pacakage.json---->this file contains descriptive and functional metadata about project such as a name, version, and dependencies.

Examples-2 to demonstrate of installing pacakage and using it

- https://www.npmjs.com/package/give-me-a-joke
- Create a folder givemejoke inside nodejs folder
- Go to location and install this pacakage
- Create index.js file and have fun

Examples-3 to demonstrate of installing pacakage and using it

- Create another folder named randomwords inside nodejs folder
- Go to location and install this pacakage
- Create index, js and have fun
- https://www.npmjs.com/package/random-words
- Note it used import keyword instead of require so do change for correcting error
- See where "type":"module" is written and never do mistakes......



require vs import

- Require keyword---> previously used
- Import keyword is better than require keyword to use
- Example ---> how to use import by writing some changes in package.json

