# **Node.js Test**

1. How do you install a package locally?

* Npm install packagename

1. How do you install a package globally?

* Npm -g install packagename

1. You installed a package called **artillery** globally, how do you call this package from anywhere on the system?

* The command npm bin lets you find out where the closest executables are,
* Example: **$npm bin**
* All global installs are linked to from a global bin/ directory
* We can either search for installed package called artillery by using, ‘**npm search artillery’** from anywhere on the system.

1. How do you run a NodeJS script?

* **‘Node filename.js**’ in a command prompt/terminal.
* We can also simply start/run our scripts using any of these commands like **‘npm start’/ ‘npm run’ or ‘npm server.js’.**

1. If you have two projects that rely on different versions of the same package, what is the best way to install the package so that it works with both?

* I would like to try “**updating my package**”, so that it works for both

1. Someone sends you a NodeJS application that runs fine on their computer. You try to run the NodeJS application; however, it throws an error about missing a package. You installed all packages in the package.json file, what could have happened?

* Need to check whether nodejs is installed properly in our system by using, ‘**npm -v’** command to check whether npm is installed with upgraded version.
* Or you might be this problem when npm can’t find a package.json file in your current directory.

1. You’re on a Linux system and installed node from your local repository, it’s out-of-date, how would you get the latest version?

* To update version of node in linux based OS, we can use ‘**sudo apt-get update’** or simply use ‘**n latest’**.

1. You have a NodeJS project that has a package.json file with 100+ dependencies, how do you install all of them?

* By default, ‘npm install’ will install all modules listed in dependencies.
* We can also use ‘npm install dependency-install –save’ to install dependencies.

1. What is a callback?

* It is a function that is passed to another function as a parameter. A callback function is executed/called inside other Function.

1. What is a promise?

* Promise refers to sequencing asynchronous operation (represents the eventual result of an asynchronous operation).

1. How would you avoid “callback hell,” or at least make it easier to read?

* A messy code or asynchronous JavaScript code refers to ‘callback hell’. To avoid callback hell, it’s always better to have modularized code, avoid repeat code, and better to maintain more readable code.

1. You need an NPM package for your project, how would you best asses using a package?

* We can get code coverage reports **with** minimal impact on **your project.**
* We can maintain single stub file.

1. You’re writing an application and need to throw an error if someone misuses your function, how would you do that?

* By using throw and catch exceptions in my function.

1. Your NodeJS application is calling a really slow back-end database and users are reporting slow performance. What is most likely going on?

* It might be due to slow server performance or due to slow network services.

1. You have two different modules, api.js and db.js. You need to use functions in db.js in api.js. What must you do in db.js for api.js to see the functions when requiring db.js?

* We can able to do this by applying dependency injection using js frameworks like angular.