**Global Object and Module System**

* In Browser we have ‘window’ object which work as global object for browser. Similarly we have a ‘global’ object in node runtime.
* We have ‘setTimeout’ in node js. NodeJS has ‘Global’ which contains ‘setTimeout’.
* In JavaScript, When we declare a variable, it attach with ‘window’ object and we can access it by window.a (where a is a variable). But in NodeJS it can not happened means it can’t attached with ‘global’ object. Const a = 10; console.log(global.a) it gives us undefined.
* --dirname give path of the file folder but –filename give path till to the file path as well as.
* \_\_dirname and \_\_filename we can access direct in node. How they comes?
* Node Module means encapsulated file. Each js file is encapsulated. This is called module system. Each file is independent. In js, one file variable can be used into another file or can be created collision.
* Each js is called a single module. Because each file of ‘node\_modules’ is separated from each other or encapsulated.
* How we can use ‘require()’ function in nodejs even it is not attached to global ? we will discussed later about it.
* If we import a js file in NodeJS. We cann’t access all the code from this file. Because we need to export from this file then we can access these exported file.
* ‘module’ and ‘export’ we can direct use but how they can be used event these are not part of global ? let’s discuss them.
* effe is a function which called itself. rayan dal set invisible effe function for each js file. When we write a nodejs code. Invisibly effe function encapsulate all the codes.
* Most important things is that, effe function is passed with (exports, require, module, \_\_dirname, \_\_filename) these parameter by default invisible.
* Which file will be added to the dependencis inside package.json file is external module
* We require direct by name like const express = require(‘express’).
* Node has built in module like file system, http, os, creapto, stream, path, buffer etc

Node module can be three types: external module, node module, and own created module