Episode-05 - Diving Into Mode Ir Gathub Repo

Module? - It is a collection of code which is private in itself and it can decide whether which functions and vosiable should be allowed to Accept by any other module which imports it.

#How require () Works?

Whenever we require a module, the node TS takes the code from that like and wraps it into a function and then executes it.

- · This is the greason we cannot Access the function and variables as Posside a function they become privately scored that is can only be Accessed inside the function.
- · All the code of module (which is imported using grequire) is run inside the function cause code is wrapped Priside a function (IIFE).
- This function is an IIFE (Immediately invoked function expression) IIFE → (function () {

3)(); -> Immediately Invoked function expression

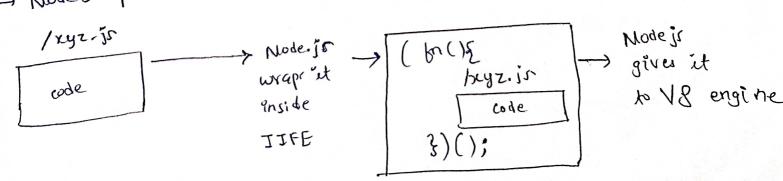
- · Hence NodeTs wraps the code of imposted module in a IIFE function and gives it to US engine
- · IIFE Keeps variables and functions safe private.

Quey How are voriables and functions private in different Module?

- -> Because of IIFE and require statement
- suequire statements weaps the code in IIFE.

Quey from where does module, exports and require comes from?

- Node gives these as parameters to the function in which the code of imposted module is wrapped in.
- Node JS passes module expl require as a parameters to the IIFE.



5 Step Mechanism of require ()

5 stops that hoppen to get the module and execute the code :-1 Resolving The Module: checks whether module is ./localpath, . jron

or node-module

2 Loading The Module: file content is loaded according to file Type

3 Waps inside an IIFE (compile step)

(4) Code Evaluation: module exposts is returned in This step.

5 Caching: Module is Cached, i.e. if the same module is required again, caching helps very much as it won't seen this module again and again. Caching makes it efficient to sun the code. snerulting in faster execution.