* Features of Async Godes S Clean & consize -> Better error handeling companies -> Easier debugging -> Improved performance + Promise The Promise object represents the eventual completion (or failure) of an asynchronous operation and its resulting value. A Promise is in one of these states: -> pending: initial state ineither fulfilled nor rejected. -> julfilled: when operation is completed successfully. -> rejected: when operation is failed. tromises provide two main methods to handle their states: 'thenc' and 'catch()'. The 'then()' method is used to handle a duffilled promise and receives the resulting value as its argument. The 'catchu' method is used to handle a rejected promise and receives the reason for the rejection as its arguement.

The constructor syntax for a promise object is: let promisel = new Promise (function (resolve, reject) 11 executor pullaboration on the 8 -3); Easier debugging The function possed to new Promise is called executor. When it is created, the executor Dimort +runs autometically. * Asynceth strassique tosque minimi all The keyword async before a function makes
the function return a promise asynchall proffer the 100 of Inthing file frames sons anetomainyzinosogo modos : builting I halfet is nothern openation is failed. Some scenarios when 'async' is used: silones Metwork arrequest out abivorg sommend US stimers " had been to both wholes wint refunded tillegration approved of prea or posteria and receives the resulting value are its argumal. - X showaitoh losso is harden consumer with process a site oriens a process process in the refrection as its arguerust.

'await' is a keyword in Is that is used to wait for a Promise to resolve or reject before executing the next line of code. It can only be inside async function, which are functions that are marked as asynchronous using the lasynch keyword. let value = await promisel; function -* API Ellone " roos", "Hobeles A" : " xmor" & -x3 Application Programming Interface An API is a way for different coftware applications to talk to each other. It defines the rules for how one application can interact with another application, allowing them to share data and functionality. Appropriate a AP Frisolo is , doron reites in

the Fetch API interface allows web browser to make HITP requests to web servers.

The make the to receive data,

POST - To send data, etc

[explore more]

* JSON " 212 of braceyod o di land

JavaScript Object Motation

- > It is a text format for storing and transporting data.
- Here data is in key value pair.
- -> Data is separated by commas
- -> Curly braces holds objects
 - -> Square brackets hold arrays

Ex- & "name": "Rishabh", "car": nully

* Closure toollib

west respect

As closure is a feature of the Is that. allows a function to access variable (through reference not by copy) and Junction from its out lexical scope, even ofter the outer function has returned.

In other words, a closure is a function that has access to variables in its own scope, as well as variables in the scope of the function that created it.