whenever there is a big promise chain, the chain at the last which has catch handles any chairs error * what to do it we want to proceed further if any of the step fails? A: there catch should be placed below then handles that error and any then below catch will process further. Developer responsibility to see where your cotch fits Promise APIS. Async Await Soz. Epo4.) What is ayonc? Async is a keyword used before function. Async function always networs a promise Eg: 1 async function () of return new Promise ((resolve, reject) =) {
) resolve (" promise resolved");
} Then consume as normal promise Const data Promise = get Data(); data framise. then ((data) => console.log(data)); or What it we don't return a promise in agree In? 11: Eg2 ayric for getData2 () < return 3;

It itself wraps the suturned data into a promise, Still it would be consumed as normal promise, async always returns a promise 2) Async and Await are used to handle promises. Async and await are used to handle promises. How we used to handle peromises before anynelowed? Const prom1 = new fromise (fres, rej) =) dresolve ("from1")) async function ho prombef Async Avait () of return prom 1; Prom 1. then ((data) => console. joj(data)), After asyre lawait await is a keyword which is only used in front of promises and in functions storting with async async function handle fromise 1) of const prod await from 1;

Console log(val); 3) Difference between normal handling of Promises and asynclawait handling promises. const promex = new Promise ((resolve, rejett) =) of set Timeout (() =) {

resource ("Promise after 105");

1, 10000) function get Data () { then ((data) => console.log (data)),
promex. then ((data) => console.log (data));

of for the above care is So Js engine does not wait and comes after 10s Promise after 105, as experted. 6) But what it we use await const promAs = new Promise ((resolve, reject) =) of SetTime out (() -> & resolve (" promise after 10s with async and await") 1(0000); async function get Data 17 f const val = await promAs g console log ('Namaste'); We generally expect to be Namuste / undefined but it executes after promise gets the value and it is assigned to val. @what it await has 2 times in code argue function getData() of console log (Hello world), const val = await Pi console log (Namaste Js'). Hellowood console log (val) afterios Namaste JS Const val 2 = await P; Vall console-log ('Namaste J52) Normaste JS2 Console 109 ('val2'): Val 2

of dieder into multiple promises Const p1 = new fromix (travolve, 70/clt)=) of Set Time out (17=) & Terolie ('Fromise rowlvel value'); 3, (0000) const p2 = new Promise (resolve, negent) = + Set Time out (1)= 5 rasolve ('fromise2 resolved value');), 5000)7 asyne function handle Multiple Bromises () of Code conside log ("Hello world") Const val = await pli console log (Namaste JS') Console log (vel), Const val 2 = await 12) Console log("Namaste JS2") Console los (val 2); handle Multiple promises It looks like asyne function Oll Aftalos is toying to resolve all promises ans. Namaste JSL before logging statements. pl resolved Namate 552 But !! pe nexolved what if PL & resolved after Is and 12 is nesolved after 105-9

Namaste Js 1 PI resolved After los fuster 55 Namaste ISZ ps nesolved what happens behind the scenes Call stack does not have handle promise waiting in it for resolve, but it suppends and it comes back into Call stack of soon or promise resolved Eg: P1 atter 55 p2 after 10s 55 handle Pramise -> comes in -> goes out due to P2 OS handle Promise - goes out 105 handle promises -> cornes in. Real world examples of asynclawait the flow fetch words? fetch is a promise on resolving gives response object response object has body which is a neadable stream. fetch => Response.json ()=> jsonValue const data = await fetch (API-UPL) const joonVal = await data-joon(1) Error Handling Vses toy catch: const data = await fetch (API_UPL): toy of const 1 sonValue = await data json() Console log (Jsonvalue), · b catch (em & logler);



It API-URL is invalid
Program stopped executing and quickly jumps to
Catch block

Ohe more way to handle

handle Promise (). catch ()

Async/Await vs Bornise then/witch

Async await is just synctactic sugar. The only effect is happening in code but it always deals with promises.

* Use asynclawait whenever possible