Turwash Notes
DOM + Modernis - Class 4
API:- (Application programming Interface
Interface mediator blu the two here API is mediator blu Frontend L Backend. Establish the Communication blu two software Components
Features of Asyne Code Clean & Concide Better error handling casier be debugging HIW
Promise:-> Euljilled

Not Fulfilled parallely érecute in background in javascript its ur use promise can back bunction Async promise let meralromèse = new Promise (function (resolve, riject) & Consale. log ('I am Inside promisé). resoure (1998); Output \(\) \(\) -Jam Inside promise console log l'Pelua'). — Pehla Nous Async let mua Promise = new Promise (Juncison (risotre, riject) d Sct Timeaut (Junction () f olg ('I am mide'); 6,5000); > explicitely Scrying to resome resolve (2233); autput (Pehra'); I com Inside

ue can also mark reject with an error. riject (nuv Error ('Error Acya')) Cau back bunction Let p = new promise (_____) (_, __ if successfully & accepted (susalue, reject)
if noet, error -> Rejected.) so catch the Error. promise state pending fufilled Reject promise: - represents the eventual Completion or

failure of an asynchroneus operation lits resulting value. parelle execution of code using Rejected burfined The value I any error in output occurred, artuned by then that promise is will be Atturned by handled by handled by (atch ()") (Then ()) method. method. After the promise is Done, then we execute anything with the help of 2 (catch () then () Fer

Value

resolve.

let merentromise = new Promise (function (resoure, reject) & Set Timeout (function () of (eg l' I am troide promise); }, 5000); //resolve (12345); / riject (new Error ('Error')) muei Promise. thun ((value) =) of cly (value) ?); wier give 12345 output. > muel romise. Carch (cerror) => & elg (error) }); will give error output conten, ofter riject error occurred

Vue Done det aux Synchroneeus Code word for Asynchronaus, no les Asynchronaus work in backgraund parallely, no give It Promise for accept & Reject of Asynchronous Code if promise is completed, I then you want to perform any action, then use then() or (atch () eg:- promise promise Completed Start for 2nd then () let waadaal = new Promise (gunction (resolve, riject) of SetTimouk() => & Console log ('SetTimecent1 Started'); 4,2000); resolve (true); waadaaj. then (() =) & let waadaal = new Promise (function (risolre, riject) f more resolve ("waada 2 resolved").
with 3000 ()

situen waadaa e;
{). then ((value) > consol.log(value));
If we have 50 promises, then 50 then ()?
No
Async -await -> Special Syntax used to work with promises
WORK WITH Promises
P, P2
Cuvait P1
Pa will wait till & Py will complete.
when you want to sun your would hirst
Asyne code completed, use await
·
To make any code Aryne
async function about () &
return 7:
I was pro
async punetion abod () & getween F: preturn F: console log (abod);
\mathcal{I}

```
async Junction Utility () à
 let delhi Mausam = new Promise ((resolvo, reject)=) &
      get Time out (()=) &
          resolve ("Deeni Ishae");
        b, 5000);
 let hydrausam = new Promise ((resolve, riject)=) &
     SuTimout (1) =) $
       risolve (" Hydreisad is coal");
      7,6000),
    det dM = /await) delhe Mausam
     der hM = lawait/hyd Mausam.
     outron [dM, hM],
```

Fetch API

In Network, sending or retrieving dota, we use fetch API to retrieve and API to Send data.

Let Content = petch (" Mr 1 ...");
Syntax to petch API

API will return -> promise.

async function otility () {

let content = await betch ("vra...");

let output = ouvoit content. json();

console-log (output);

Jurility();

Joua Script Notation

data is retrieved here & Stored in Content & then converted to JSON farmat.

JSON: - JavaScript Object Notation i.e. in an object Ky: value pair (get call in API) 1 FetAPI → gu() → remeve let a = fetch (" voil pass"); a . Status to check. a. Json () a. tex() (α) - | Lu op = $a \cdot Json()$; Console-log (op). Sometimes the API is protected & you have to sent the key or your authenticated data (usuid), if you want to Send then you use "requist heady" Jutch (_ url , ' [coptions]') create object a thun add authentication or fecret luy. & heads: & authentication: key,

Naw Sending voing fireh API
past - Sena
-> feren along with only url is get cal
fetch ('Uni')
the object en option is secret ke or authentication then also its
feren (" une", 'options')
Now, In this options only the way we create object, it will be post in which we send data using here API.
ferch API;
getch ('und', 'options')
peost
let ceptions = of

nethod: 'post'
headu:

ζ

post call:async bunetion helpy () of this object let options = & can be capied method: 'POST' from internet body: JSON-Smirgify (& serodora Stitle: 1600'.

Serodora Sody: 'bou', ve or headers: of to strone in 'Content - type': darebase 6 (await let content = / getch ('Uri', options); let response = content. json (); return rusponse: asyne gunction utility () & en ons = helper(); (onsale log (ans); writing (); an object is Sent in ord Data. Theaders is additional)

JSON. Stringily () I converting object Notation to Format Conversion / Nau, Closures pernetion about () Var name = "xyz"; Junction displayName() console. log (name); display Name (); about about).

if we will use det in place of var then also xyz will be printed

let name = "Sher"; function init () : 9 let name = "Mozilla", bunction display Name () of det name = 1. Babban"
consale. log (name). display Name ();) Babban will be printed ini+ ();) local > Culobal when the Junction is completed then the name variable will be destroyed if you will call (it frenct = init (); bunct (); - here name is distroyed. but output will be 'Mozilla' because of closuri

when you create nested function every function has its closure Closure is Sometting in which function is Binded with its required closure bunction tdates Lexical environment or Sureunding with references of data clasure is made for all nested function you create in the form of References Nested Junction -> Closure Reference Not copy