of witers. ("club.") in Asynchronous Tava Script:-5) Synchronous :- mat lab et ke baard durra hoge, jas tak en command, complete naa ho, chiera shure nahi hoga. Asyn: - mattab saare Kaam ek saath shung Kardo, jiska answer pahle aajaye uska jawaas deelena. set Time out Asynchonous set Interval promises promises
fetch

anious

ie, thing party data

xml Http: Request

faking. aniouconsole. log ("12") - synchronous Il kai baar oapka final code elepended hoter has kiri aun ke server par, is case mein humein nahi pata hoter ki

answer ushe perver se hab bant kan aayego, to

A sync Js Settimeout) - iska coele Kuchh der bood chalter hai. Setinterval - isko code kuch der bood chalte hai baar baar en particular interval time mein. > Fetch APD- 4e kissi aur enl par jar kan kuch data laayega ya data huraare paas se us une par lekar jaayega. y (Amos) (or other HTTP libraries) - ye bhi wahi Karego jo fetih Karto hoë bas ye thoda jarda developer friendly hai 7 Promise - ye janas ke andar jo coele likhoge wo open kaan havege am Rhud side stock men chale jaayege uns aude 40 letear au jats ondar se code resolve kingo parquege tots ye Settimeout bg) set Timeout (function () {
console · log("hi"); 3, 1000) Times was a series of 69) set comole log ("hey 1");

69) set console log ("hey 1");

console log ("hey 2");

Cet Timeout (function () {

console - log ("hey 3");

3, 2000)

console - log ("hey 4");

of p will be hey 2 hey 2 hey 4 hey 3

mein rahega jas fah main stark pura eneute no hojaye.

Det Enterval

(console · log ("hey 1");

°/P:- har I see bood key 1 console mai

Then how to stop it

Console log ("hey 1"):
3, 1000)

clearInterval (humano interval)

11. Letin ye coele ka o/p nahi milega as ye turant enœute hoga ()

Var count -- 1 const humano Interval = set Interval (Guntion () } ++ count; console-log(count); i(5 (court ====4) clear Diterral (human interral). 11 is tarete se code to soto jato 3) Felch API.

Samajhne kelige APT æk url hota hai jo hi data detu hai.

one of best api is (random user api)

Akyakî ye internet pour

11 ye kini am und par jaar Han Kuih dater baayege yo data humaane paas se en end par lekar jaayega. Il kyuki ye internet par jaayega aur fin dala ko lehar aayega to sismein lime lagtor hai to by default hi js mein betch ko augus banaayar gaya hai kyulii fetch ka kaan hai daler laana wo bhi kisi url se ab aisa ho shla hai us url ki websile slow ho to dala baane mein time lage aur agar fetch synchwows hota to ushe booef ka code tab tak nahi Isalta jal tah uska dala nahi aejata, whus is a big problem, poora coele alah sakta hai sakta hai sakta

(etch ('unl') = ye jaayega sicle stack console-log ("hey") mein Ye jaayega

Man stack mein Te problem create har Sauta hai. so to anoief

we can use then method.

o) (fetch (' m ')

· then (raw () => console log (raw)).

ke format mai hoge jo hi redeable nahi hai for omselves. mai hota hai jo hi byte readable found by computers - so to make human understand format we wrey use json co

fetch ('me')

- · then (raw => raw. json ())
- · then (readable => console- log (readable))

Avious issmein raw date nahi milla; direct joon date

- parte the con then with

millo hoi.

etten (result) console log (result)

fat anow functi.

get or port. Tyada borhend mein me

6 Promises

Il promise the andar Koi bhi aryne code likhdo jo man meis aaye aur promise aapho eh parchi dedeto hai and wo parchi par by defaut likha hote hai wailing, parchi par do events hote hai mainty ek erest ha naam hai then aur eh erent ha

roam hai catches agai apha dola angaya to pauli pe resolved whijanyega uniling hi jagah and then chalega air again data mein clithat anyi to catch chalega and waiting hi jagah rejected likhjanyega.

Syntan

new Promise (function (resolve reject)

3)

cont v = new promise (function (resolve, reject) {

Getch ('https:// randomuser me / api /')

· then (raw => raw. json())

· then (result => {

i6 (result (0), gender === "mile")

else reject ();

3);

زرد

v. then (function ()[

console beg ("horo Gulton dasa");

3)

Callbacks

coulback suf ex funtion hote har, but thodo special jo hai wo ye hai hi ise paus hiya jaate hai as an argument jab particular augn code chat jaaye.

(ag) function ascd (a, b) {

abed (1, function () & console log ("callback chala") 3); couldout funds

callback chale

how to use

soulback pahli cheej to ek functs hai, aap in functs wo sab likhdo jo angko chalaara ho jab anner aajaye, am ise tab chalao jab aapha augu code chal chuka ho

Eg) function do Aryne (cul, callback) { fetch (ul) o then (raw => raw . json ())

. then (result => [

coulback ()

choAsyn ("cul", Gusetros 1) [

3).

Eg) Il even se kuch ofata mangaav and jas data vajonge to us data ke name, gender and Email ho print kaw.

function get Dato (wel, carlback) (
fetch (wel)

• then (raw = raw : json ())

• then (result => L

carlback (result)

. 3

get Data (" https:// rondon user. me/api", function (result)

console log (result result (o). gender,

result result [o]. email, result

result result (o). nain: (fut)

3)

Asyne / Awart

Koi she farely banaalo and whe ardan jo man mein aaye no aryne coele likhelo, ab jab aryne likhte ho to baaf wali line pahle chal jaati hai kyuhi aryn side stark pe hote hai an baad wali line agan aryne we baris par hui to apha wele fail ho jaayig, aryne coele par jo ki baaf mein dalega syne oode chalne he baad mein dalega

I with aryre await aaparyn wele bhi ain likh
Skte ho jaire hi aay normal synthonous
W.
1 wo walk
Par asyne likhna paelega-
Eg) aryne function abed () [
let a = await (etch C'https://randon www /api[');
11 was we he date fetch have he had !:
11 uss url he date fetch kame he bood hi agli line chalege.
a= await a jeon ();
1/ Yahar par fine likhna pada Sever rahi to
Je line & pehelo chaljanti.
console boy (a).
abed ()
AJAX - = Feth & Amous
Event loop =
Collback Quene Side stock
event boop []
mais
stail
Event loop chein Karlo har he agai mais stack

```
khali ho tab side stack se code ho
      mais state par lekar cyege
   Callback vs Promises Vs Asyne (Awart
Of ex une se data tehan and and usey
      console par show have.
Callball.
  function datafetiher ( cul, callback) {
       felth ( ul)
        · then ( raw => raw json ())
        · then ( result => {
             Coulback ( result ):
  date Fetcher (" https://randon wer. , function (result)
          conole log ( result);
promises
 function data Fetcher ( unl) {
     Const pareti = new Promise Cfunction (resolve, riget)
           fetch (ul)
           · then ( raw => raw - json ())
           · then ( result of {
           3) resolve (result);
```

```
return parshe;
ar a = data Fetcher ("https:// randomuser.me/api/")
       · Chen ( function ( result) [
              console log (result);
    asyne / awant
     asyne function data Fetcher ( unl) {
        let data = await feth (ml);
         let & result = await date json();
     return result;
      asyne function 44() [
        const dala = await dataFeliter ('https://...)
            comole lug (dala)
        hh ().;
                                   hum asyre fout to
                         direct print nahi Gart saule
                hain so ek fund use havenge
               & then undate as print garage
```