Notes by: Mohini Mahato Introduction Dramises - coding pattern / Readilitity Enhancer 4 Readibility Enhancer the problem of Inversion of Control 4 Cun Solve

4 Im Is promise one special types of object that get neturn immediately when we call them

9 Promises act as a Claceholder for the deta me hope to get back sme times in future)

4 In the promise objects we can attach the functionality me want to onecute me the future rank is done.

Is Once the future task is done, promises will automatically execute the attached functionality

-> Promises have two poroporty. (1) State property

(11) Value property

- Creation of promise object is sync in nature

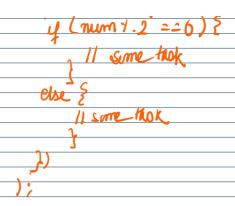
Is Any promise object is in one of the three mutually enclusive

(1) Ponding - when we create a new promise this is the default supresonts the operation is completed successfully (111) energeted - y ops not successful

from pending either fulfilled be sujeviel

In order to understand promises entremely well we need to runderstand two things only technically

```
technically
                two things only
                (1) How we can create a promise?
                (11) How we can consume a
                                                promise?
      How to weste a promise ?
                               expects callback
                                                          this creates a new
              new Promise
                                  It takes two parameter
                                                          Is promise abject
                     Comptantal of the
                           promise obj
              Comstructor are
              special function using
              which a new object can be
              Crewted
           new Promise (function (nesolve, neject))
                      I time consuming task
> whonever in the implementation of executar callback:
(a) We call the nexular function, the promise goes to a fulfilled state.
(b) If we call the reject function, it goes to a rejected state
(C) And if we don't call amything then premise remains in the ponding state
                                                                  4 value;
                                                                     undefined
> with whatever originment we call resolve or reject with it gets assigned
   to the value proporty
                   function oresterionize()
                       neturn new remise ( function exect) (resolve, reject) &
                             for (leti=0; 15 15000000; 1++) {
                                  11 Some tusk
                               num = getRandom?ont(10);
                           4 (num 1.2 ==6) }
                                11 sime that
```



Juick Summary of premise constructor:

- (1) At the time when the combinator generates a new promise object, it also generates a pair of function called year we are neject
- (11) Generally the executor cullback, where some asynchisync oberestion
- (14) The onecutary is called synchromously

Nok

- (1) The state of primise will only change if we call the resolve ar reject function its never young to change the state of primise.
- (11) Once we resolve on negect the promise object, it can never be updated again.

 We can resolve to times it doesn't matter first resolve will only be going to

 be effective.

- To be Continued ...