

pr. then ($\underline{r_1}$, $\underline{s_1}$)

pr. then ($\underline{r_2}$, $\underline{s_2}$)

pr. then ($\underline{r_3}$, $\underline{s_3}$)



then we are registering $[r_1, r_2, r_3]$
to the on fulfilled array of
pr object & $[s_1, s_2, s_3]$ into
onRejcted array of pr.

pr.
• then ($\underline{r_1}$, $\underline{s_1}$)

• then ($\underline{r_2}$, $\underline{s_2}$)

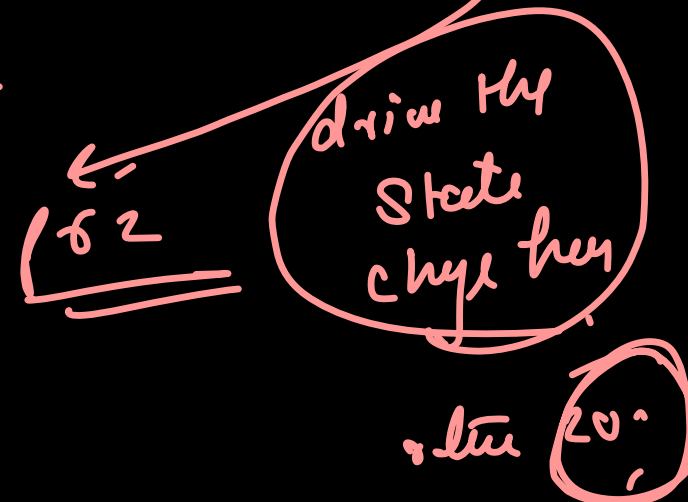
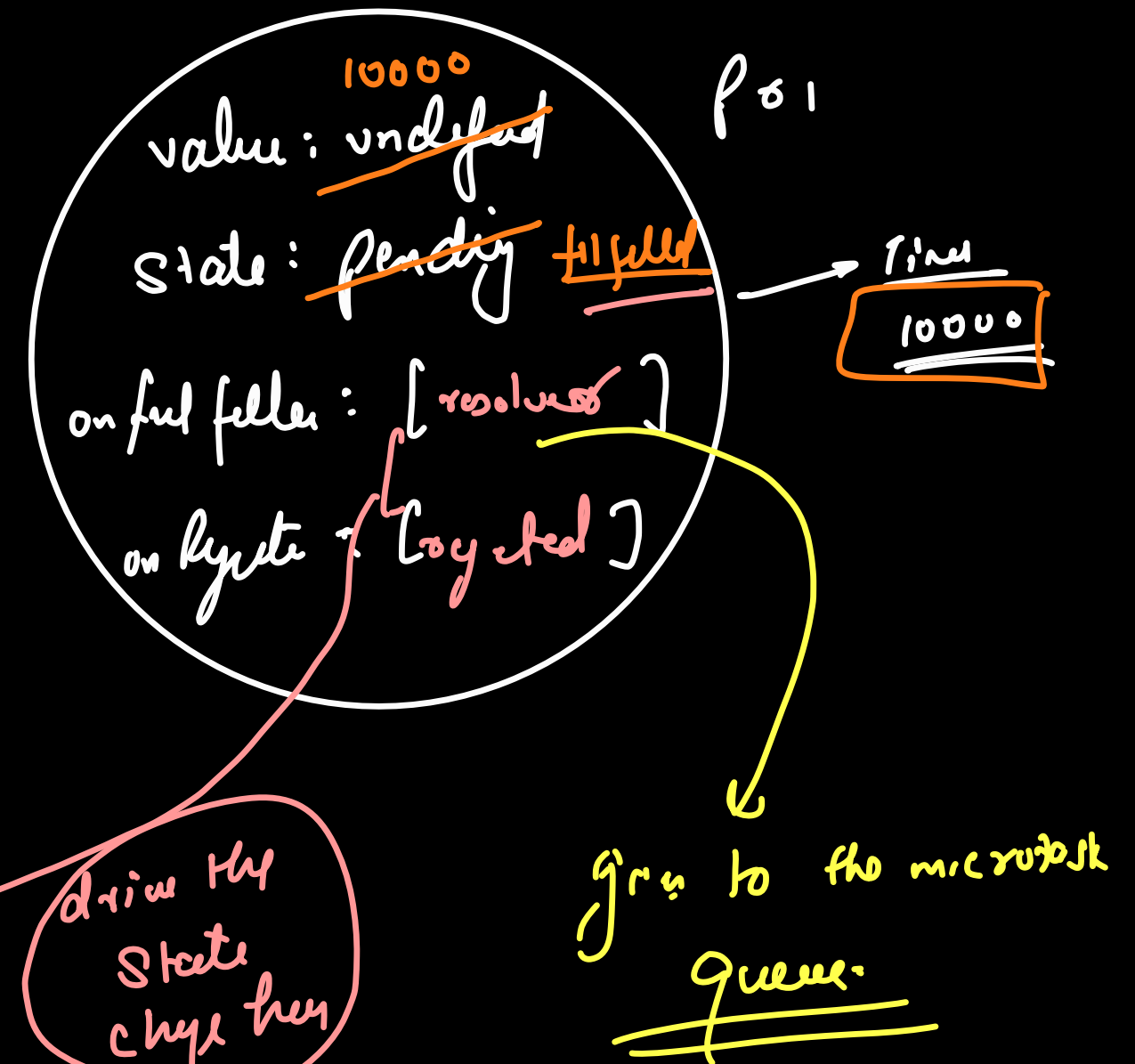
• then ($\underline{r_3}$, $\underline{s_3}$)

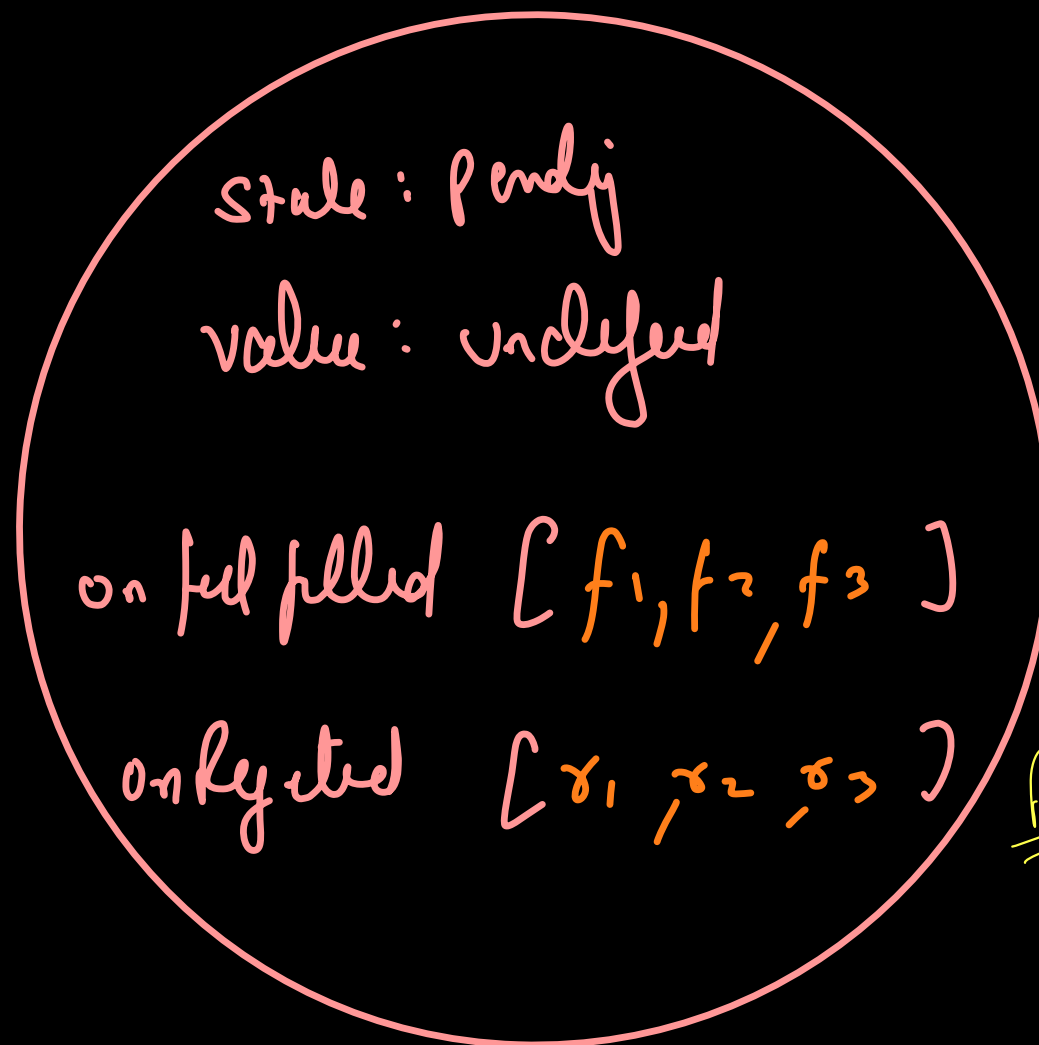
then we register r_1 to pr's
on fulfilled & s_1 to pr's
onRejcted. Then the promise
returned by first pr. then
gets r_2 & s_2

```

1  function createPromise(time) {
2      return new Promise((res, rej) => {
3          setTimeout(() => {
4              res(time);
5          }, time);
6      });
7  }
8
9  const resolver = (val) => console.log("Resolving with", val);
10 const rejector = (val) => console.log("Rejecting with", val);
11
12
13 const pr1 = createPromise(10000); // first promise object
14 console.log("PR1", pr1);
15
16 const pr2 = pr1.then(resolver, rejector);
17 console.log("PR2", pr2);

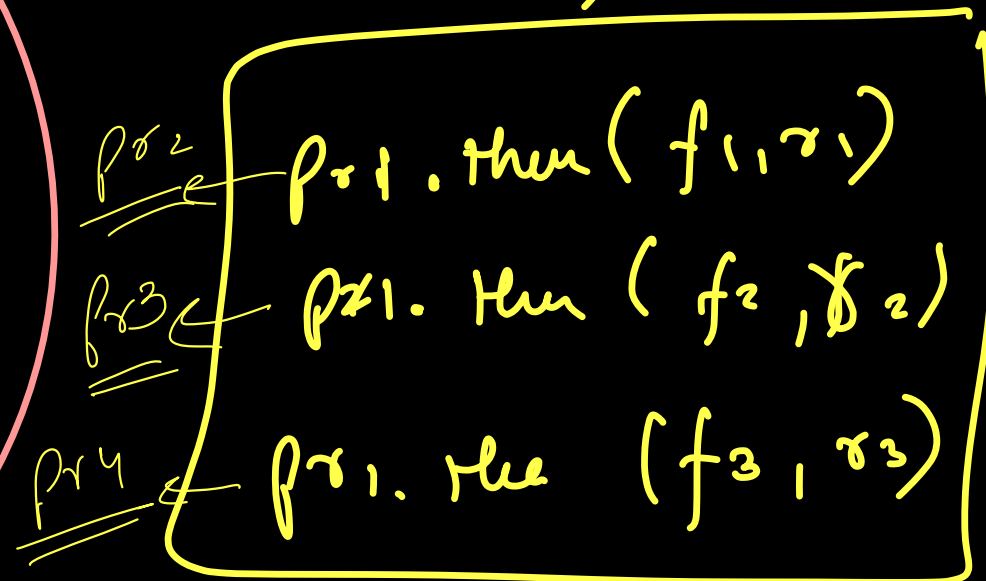
```



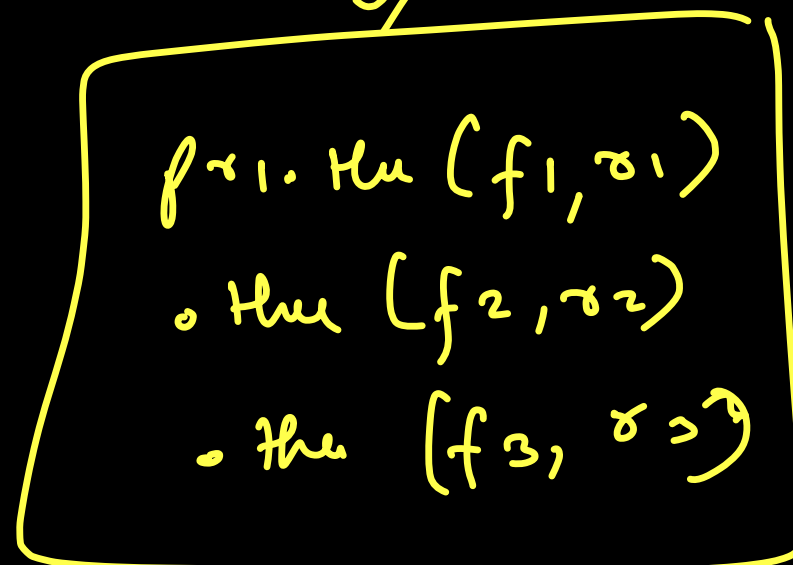


p_{x1}

a)



b)




```
function log ( ) {  
  // or printer  
  return undlyes  
}
```

() => console.log (—)

console = ^L
log () { _____ ; _____ }

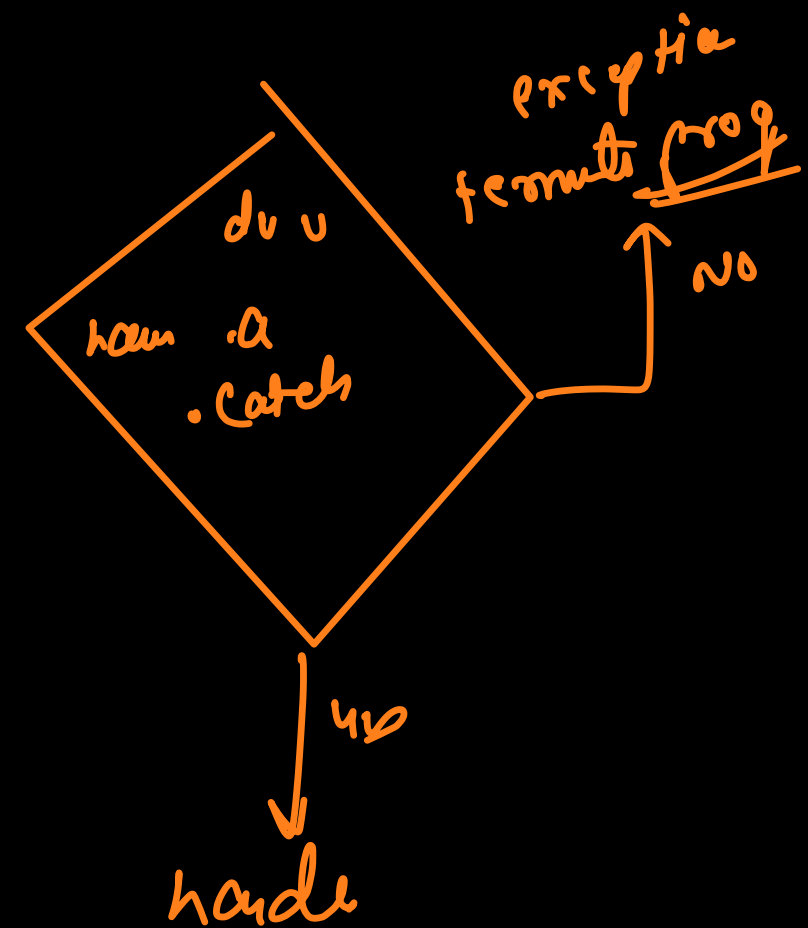
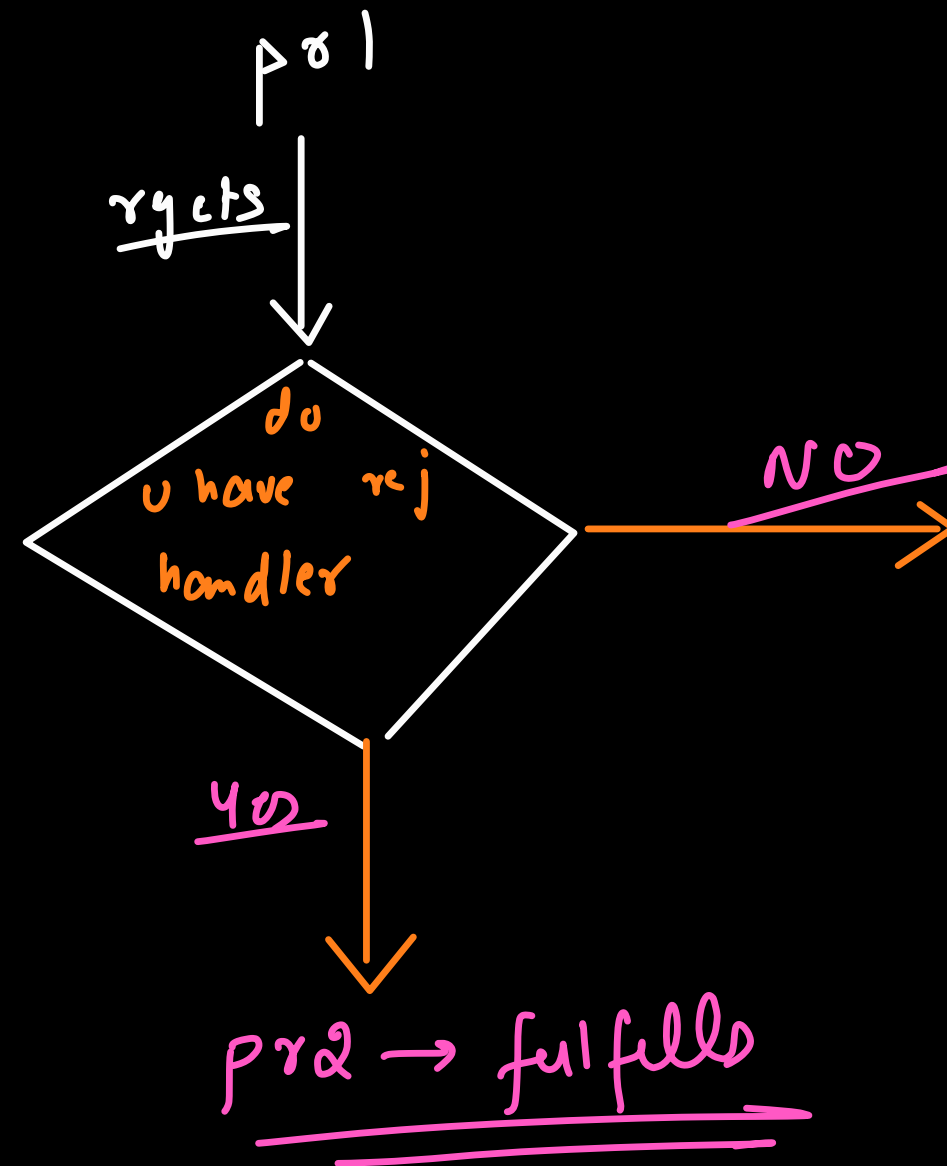
2

when can a promise reject??

↳ manually

↳ if your code throws an exception

$p.\text{then}(f, _)$



To handle case of promise chaining when `try` handler is missing we can use `catch` funcⁿ

```

30 downloader("www.google.com")
31 → .then(downloadedData) ⇒ {
32     return writeFile(downloadedData).then()
33 }
34 .then(fileName) ⇒ {
35     console.log("Started uploading from .then");
36     return uploadFile(fileName, "www.x.com")
37 }
38 .then(value) ⇒ console.log(value);

```

f → endy prom

→ g

→ levy

event loop

→ h

→ cb

R.E

micro in

h

4000ms

down
load
1%

state: F
value: dummy data
on full: []
only: []

→

state: ~~F~~
value: ~~under~~ dummy.txt
on full: []
only: []

→ promise of first. the

state: ~~F~~
value: ~~under~~ success 2nd
on full: []
only: []

→ 3rd . then
promise

↓

↓ up to date
person

State: ~~FF~~
value: ~~undy~~ Screen
on f: []
on k: []

→ 35

State: ~~FF~~
value: ~~undy~~
on f: []
on k: []

3rd
~~with~~ the
promise

State: ~~FF~~
value: ~~undy~~ dummy.txt
on f: []
on k: []

workful

- returns a value: `p` gets fulfilled with the returned value as its value.
- doesn't return anything: `p` gets fulfilled with `undefined` as its value.
- throws an error: `p` gets rejected with the thrown error as its value.
- returns an already fulfilled promise: `p` gets fulfilled with that promise's value as its value.
- returns an already rejected promise: `p` gets rejected with that promise's value as its value.
- returns another pending promise: `p` is pending and becomes fulfilled/rejected with that promise's value as its value immediately after that promise becomes fulfilled/rejected.

for cb is .then