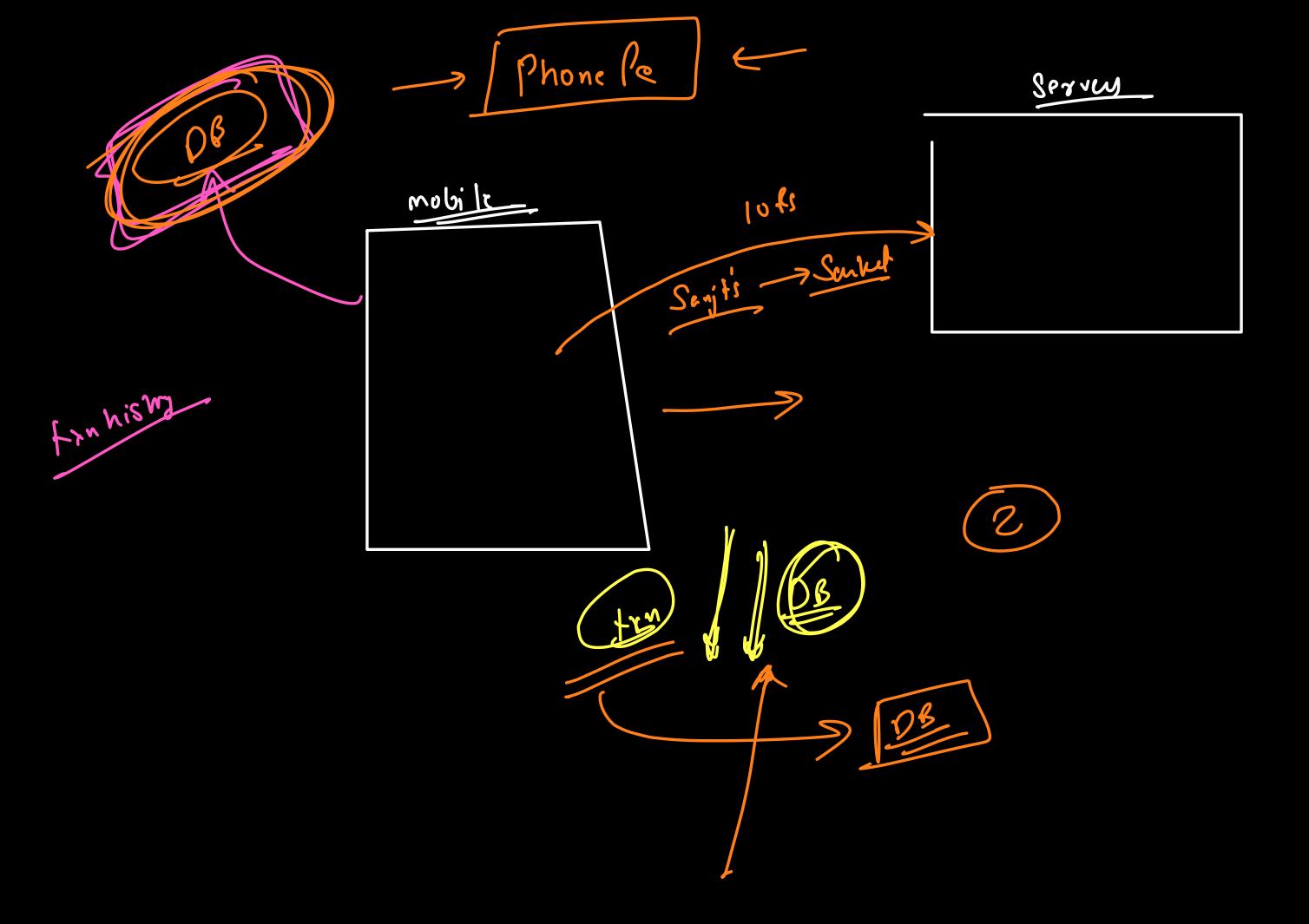
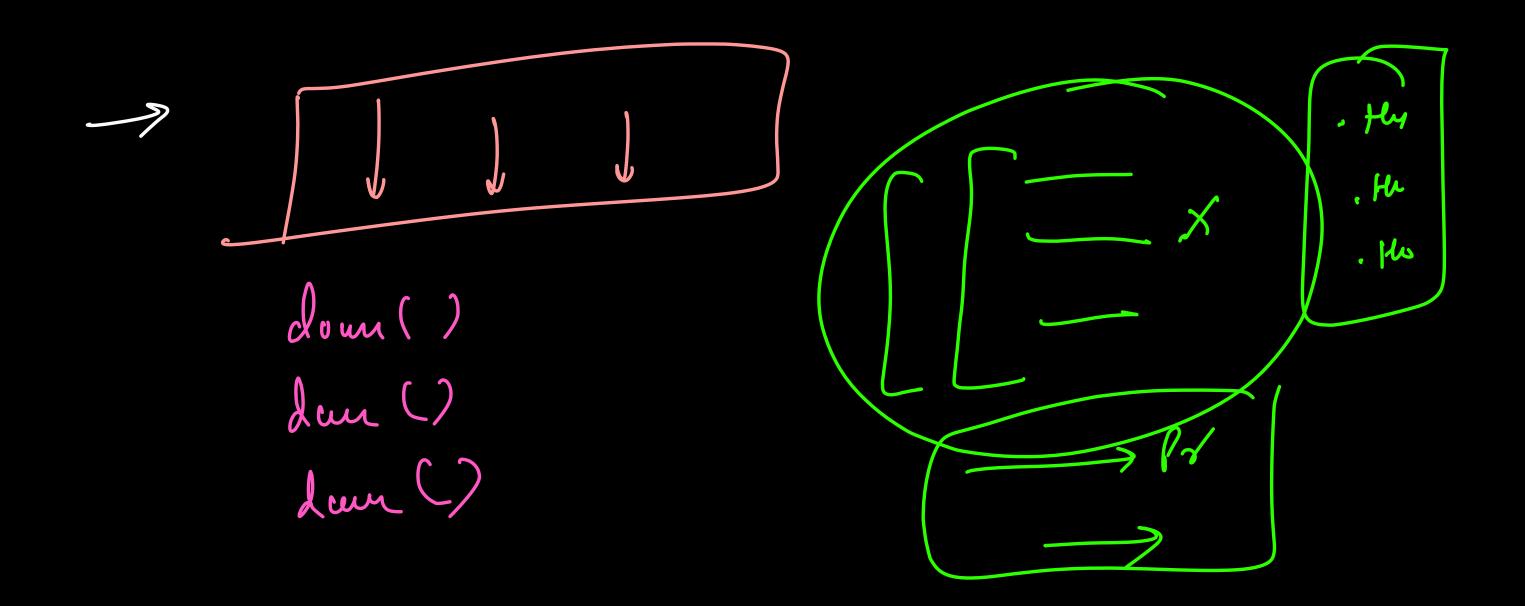
Closuro 2 Some imp loomise funct > generators

how async amout internelly works -> how async awant houdles promises

Closuros show we are 22. function doSomething(task) { console.log("Initialising do something");
setTimeout( () => { console.log("Timer done and task done", task); }, 3000); console.log("Exitting do something after intialising a timer"); undefined doSomething("complete homework"); You're her

```
function outer() {
                          Clusuro is the
   let i = 0;
   function inner() {
                           ncehamism very utre
      i += 1;
      return i;
                                  remembers
                          variables which
   return inner;
                         might not be
                         present in it's local
 2 = outer()
                 In closure, me close oun
                 variable instead of
                  Snapshotting the variable.
```





Mon brothers 3 b  $\alpha$ 1 h 1 (om 30M doise HW 9,000 declarhin Impration

JOIN THE DARKSIDE

Iterator La declaration way 1 my ration of feldy data 1,2,3,7,5 for [i=0; ic arr. length; i++) {

(onsole.leg (arr [i]) done: 7 next: funci

value -> which value me are pointy at next -> for many while we can get the v iterator objets's Ivalue, don 3 properts done -> tello if more value can be fetelred

I it will immedrally brig you out of a y; et d generator finc? supposemble value jou jield well is geven to the value paramele of the relur object I there are more yields left in the genedar, done property is false.

```
function doAfterReceiving(value) { // "dummy.txt"
40
         const f = iterator.next(value); // "{value: undefined, done: true}" — (value: undefined, done: true}" (value: undefined); // "{value: hunderined}
41
      🔐 if(f.done = true) return;
42
         f.value.then(doAfterReceiving);
43
44
45
                                    duy date
     function* steps() {
46
       >> const downloadedData = yield downloader("www.google.com"); // start a timer in runtime,
47
         console.log("Data downloaded is", downloadedData); )
48
         const fileName = yield writeFile(downloadedData);- duy int
49
         console.log("File written", fileName);
50
         const upload = yield_uploadFile(fileName, "www.drive.geogle.com");
51
         console.log("Upload response", upload);
52
53
54
     55,
     const future = iterator.next(); // future→{value: PendingPromise, done: false}
57
     // {value: undefined, state: pending} → {value: "dummy data", state: fulfilled}
58
59
     future.value.then(doAfterReceiving)
60
61
62
```

illes box 3)

l': Édont: filse, value

valu: dun-txt stali: F

writeful po ou

J: hdone: falo; valu > Stale: f

onfulfil: [obogter]

rear

35