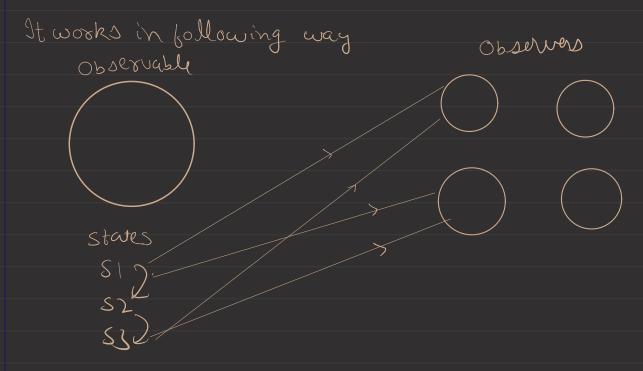
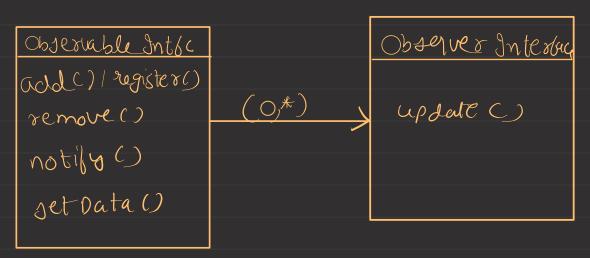
Observer Design Pattern

In this pattern we have two interfaces: - Observable & observer



So here whats happening 13 whenever there is a state change in Observable, it notifies all the notifields which are attached to it

In terms of classes & Interbaces



lets discuss what's happening here

- So the Observable Interface has following functions:-
- 1) add/Register:- The observer is added to a list to notify
- Demove: Inverse of above
- 3) notiby: The main function which will notify observer
- 4) set flatu! It is used to change the state of observable
 Observable
 - 2 update -> used to update the observer

```
Observed to Class

int data
add (Observed Int Obj) (1st push(Obj))

remove (Observed Int Obj) (1st remove (Obj))

notiby ()

for (Obj in 1st)

{ Obj update ()

set Pata (int it)

{ data 2i to notiby ()}

get Pata () { return data }
```

Observable Int Obj Chservable Int Obj Cydate C E data = Obj get Data () 3

So from above we have following Observations:

- I Observer has an object of observable (willdisuss)
- 2 Whenever we settleta, we notify obsuras

Why do we have observable of in Observer?

Whenever you call an update () method from notify, it will run. But now the problem is which observable class called it. C Because there can be many)

And then in update we need to check which obj called it by passing it. This is not a good approach.

So instead we pass in the object of observable directly into Observer.