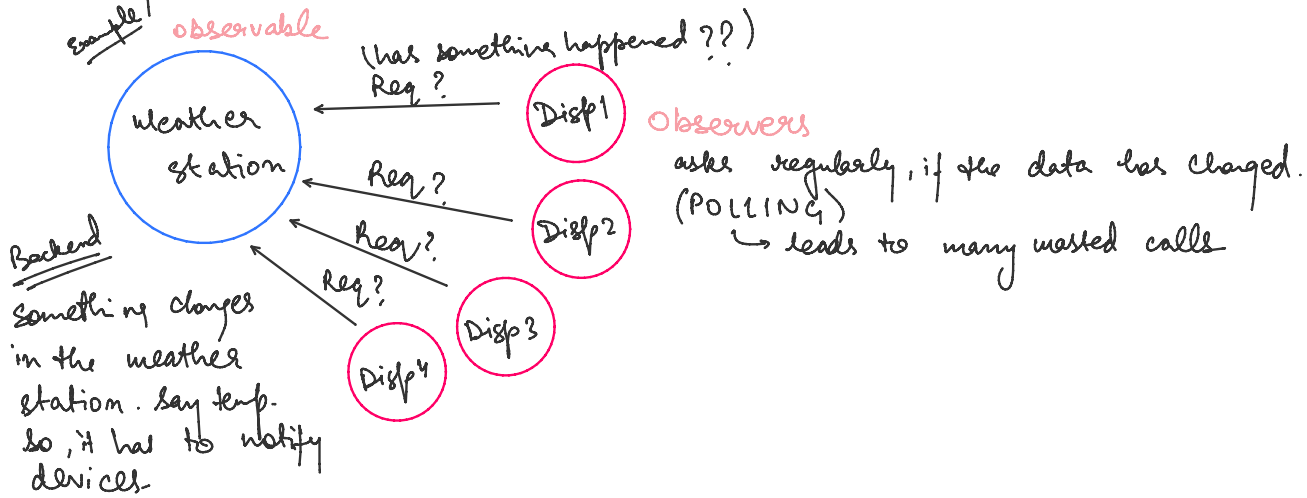
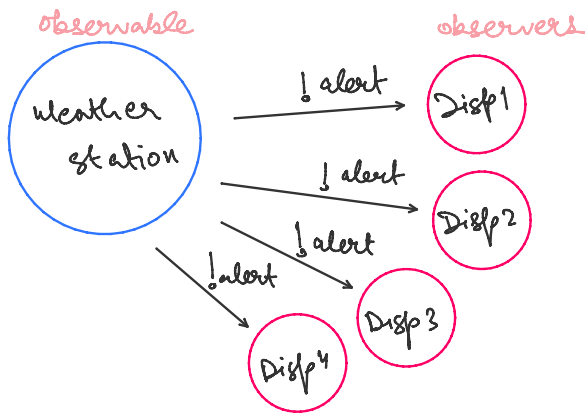


Q Why Do we need Observer Pattern?



(PUSHING) whenever the data is changed in weather station, it notifies the observers that there are some changes

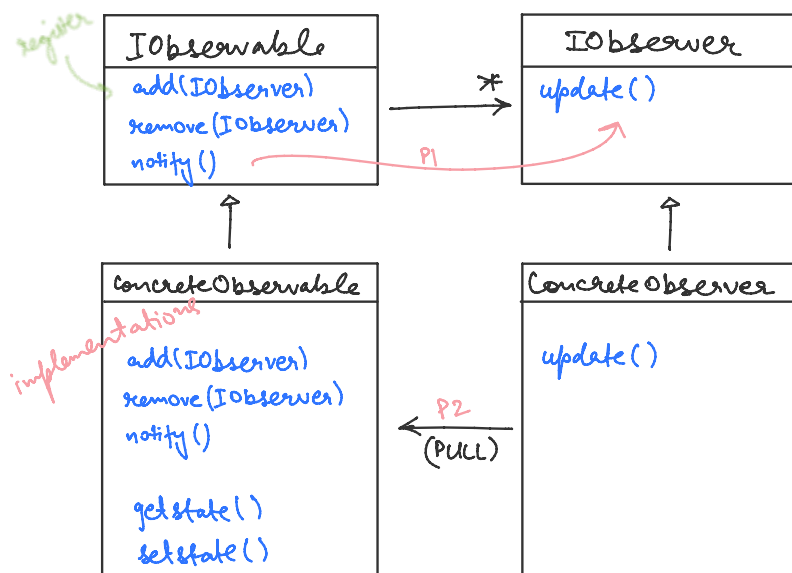


Now, to solve the problem the observer pattern uses the PUSH Method.

### # Key Note

① If an observable "pushes" some changes to the observers then it must have some reference to them!

so, we can conclude that the observables must "register" themselves to the observables.



P1: when there is a change the `notify()` method calls the `update()` method on all the observers

P2: instantiate `ConcreteObserver` with a reference of `ConcreteObservable`. This allows the observer to access the changed data in the observable.

→ when there is a change `notify()` calls the `update()`. Now, observer knows there is a change. But how to access it/or to know what has changed ???

#### Definition :

Observer pattern is used when there is one-to-many relationship between objects such as if one object is modified, its dependent objects are to be notified automatically. Observer pattern falls under behavioural pattern category.