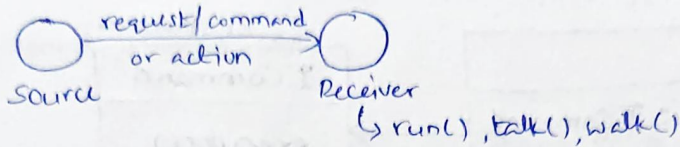


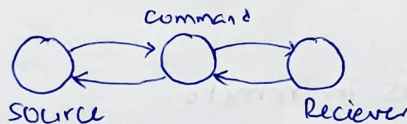
Command Design Pattern :



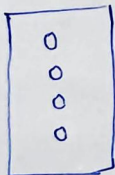
Consider we have two objects source and receiver.

Source requests or Commands receiver to run any of its methods.

But, ~~what~~ Command design pattern says that assume the request/command itself an object.



Ex: Smart Home Automation



Remote

We have a remote with which we control devices like Fan, AC, ~~Fridge~~ Light etc. using the buttons. (Those device are smart devices).

Class Light {

on();

off();

}

Class Remote {

Light light;

pressRemoteButton() {

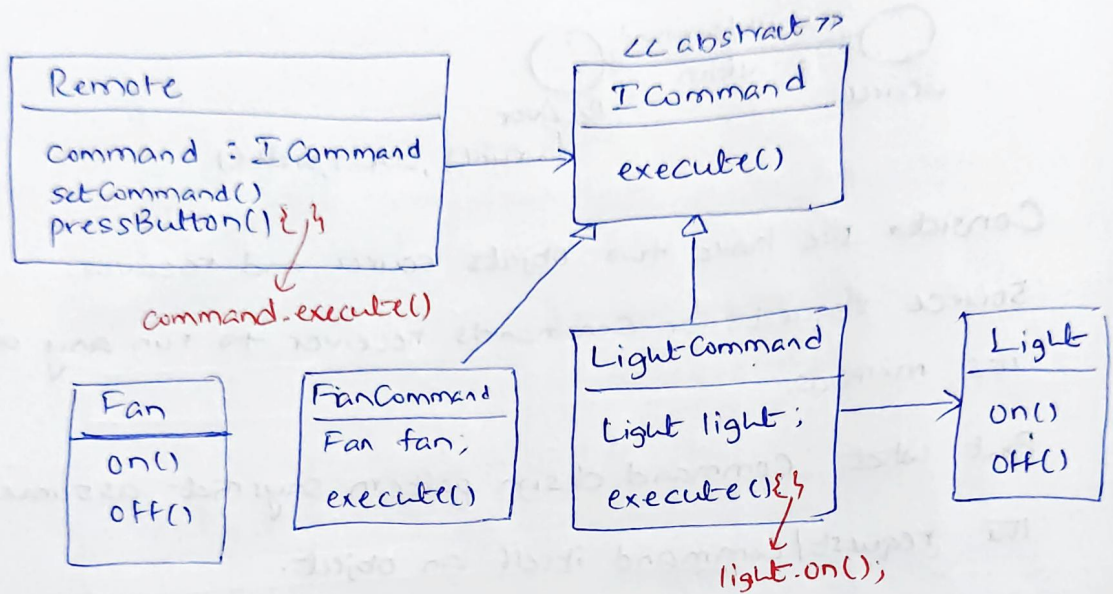
light.on();

}

}

here, This remote is tightly coupled with Light device. If we want to add a new device like smart water heater, we go to Remote class and do changes. So it clearly breaks Open-close principle.

let there is only one button in remote.

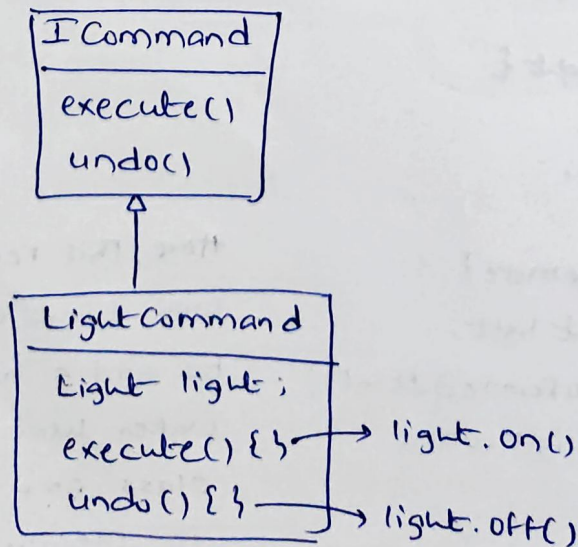


~~for~~ for multiple buttons in remote.

- ① maintain a list of commands in Remote class.
- ② pass index of command to pressButton method.

UNDO Command :

use `undo()` method in command interface.



Real-world Example

① Text editor, Photoshop → undo feature

② Keyboard shortcuts

Standard Definition :

It encapsulate a Request as an Object, thereby letting you parameterize clients with diff requests, queue or log request and support undoable actions/operation

