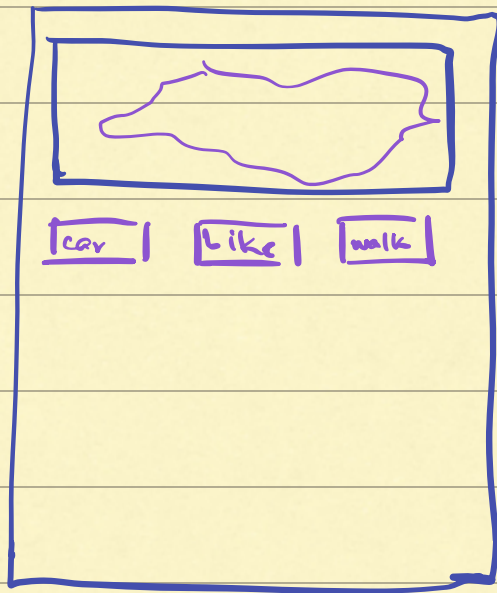


Agenda:

- strategy design pattern
- observer " "

Google Maps



Google Maps 2

findPath (from, to, mode) {

if (mode == car) {

||
||
||

}

else if (mode == bike) {

||
||
||

}

else if (mode == walk) {

||
||
||

}

Similar
set
of code.

1. SRP
2. OCP

1st Solution → ① Car Path Calculator

- find Path / calculate Path.
}

② Bike Path Calculator

- find Path { = }

③ walk Path Calculator

- find Path { == }

googleMaps

find Path (from, to, mode)

if (mode == car)

1. OCP

CarPathCalc carpathC = new CarPathCalc();

2. DI

carpathC.findPath();

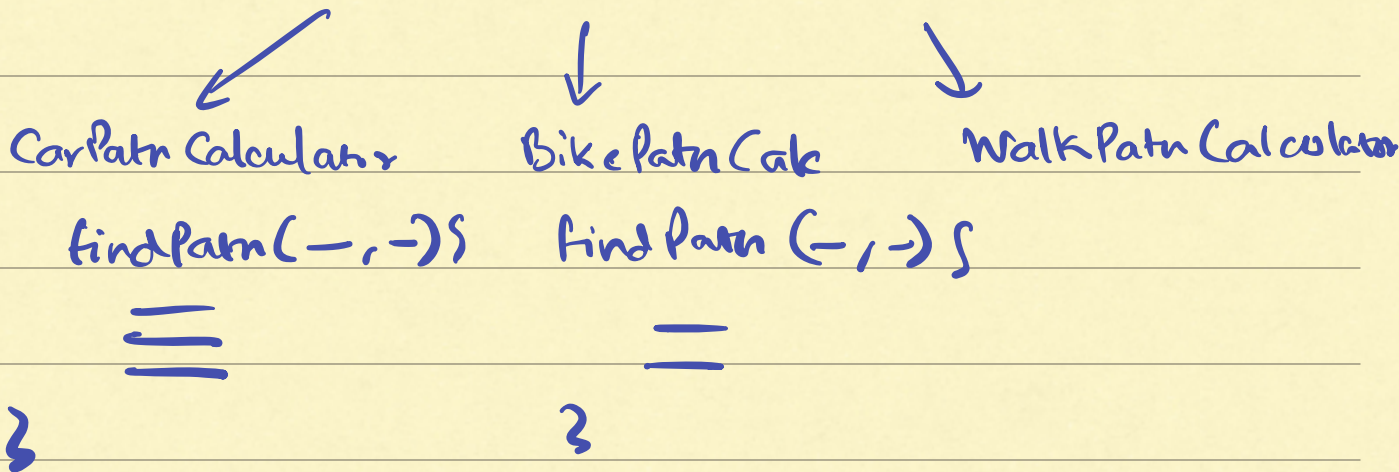
Dependency
Inversion

⋮
⋮
⋮

2nd Solution

<< Path Calculator Strategy >>

findPath (Source, Destination);



googleMaps

findPath (from, to, mode)

if (mode == car)

String Type mode.
Enum Type

PathCalculatorStrategy p = new CarPathCalc();

p.findPath();

OCP

to remove
OCP add
factory
method.

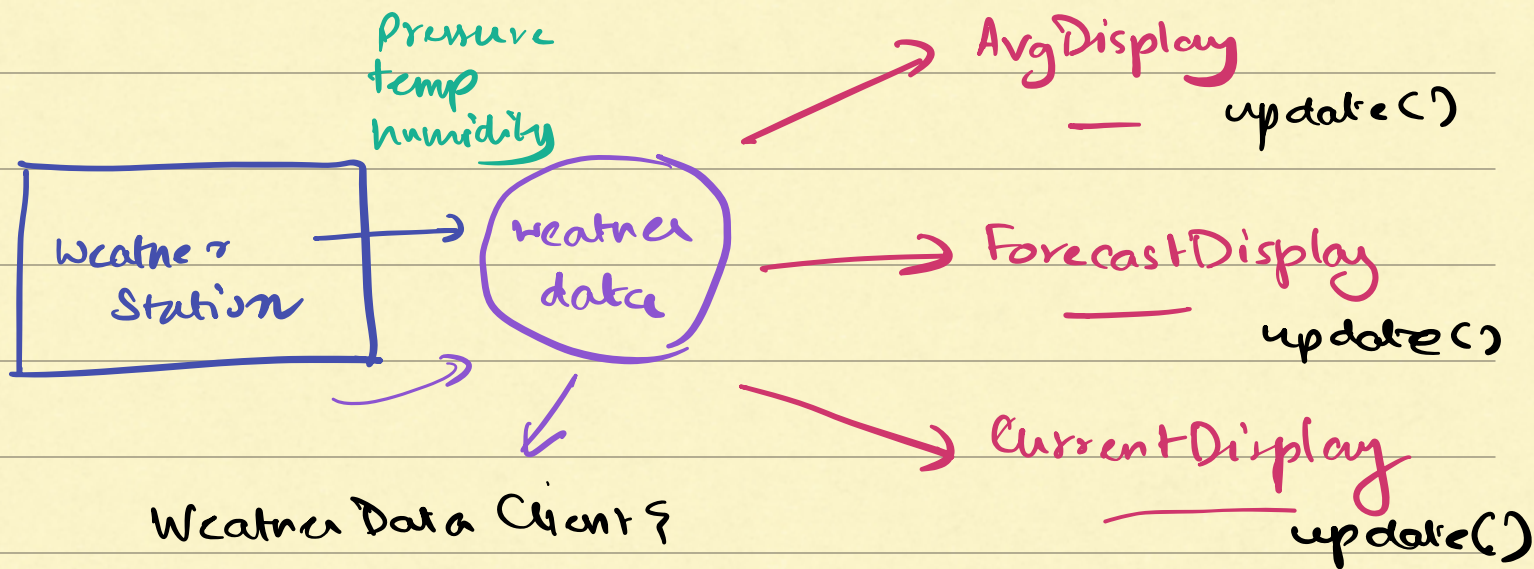
if ()
? : =

findPath2 (from, to, PathCalcStrategy p)

p.findPath (from, to);

Strategy
Object.

Observer Design Pattern :



update All displays () {

OCP

avgDisplay.update();

forecastDisplay.update();

currentDisplay.update();

> ≥

Publisher

<<Subject>>

void registerObserver(Observer o);

void removeObserver(Observer o);

void notifyObserver();

Subscriber

<<Observer>>

void update(-, -);

implements

WeatherData implements Subject {

List<Observer> observerList;

notifyObserver() {

for (Observer o : observerList) {

o.update();

}

}

WeatherData = registerObserver(new
argDisplay());