

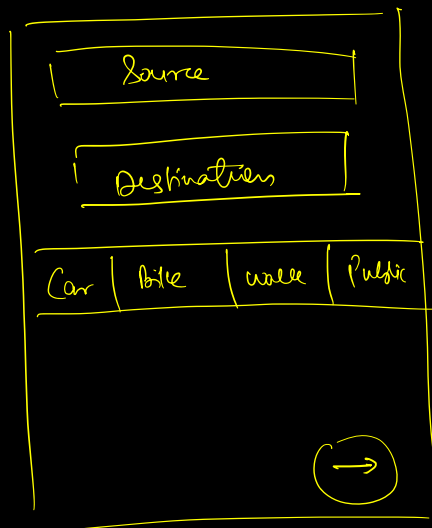
: Strategy Design Pattern
 : Observer Design Pattern

] 2) Behavioural Design patterns

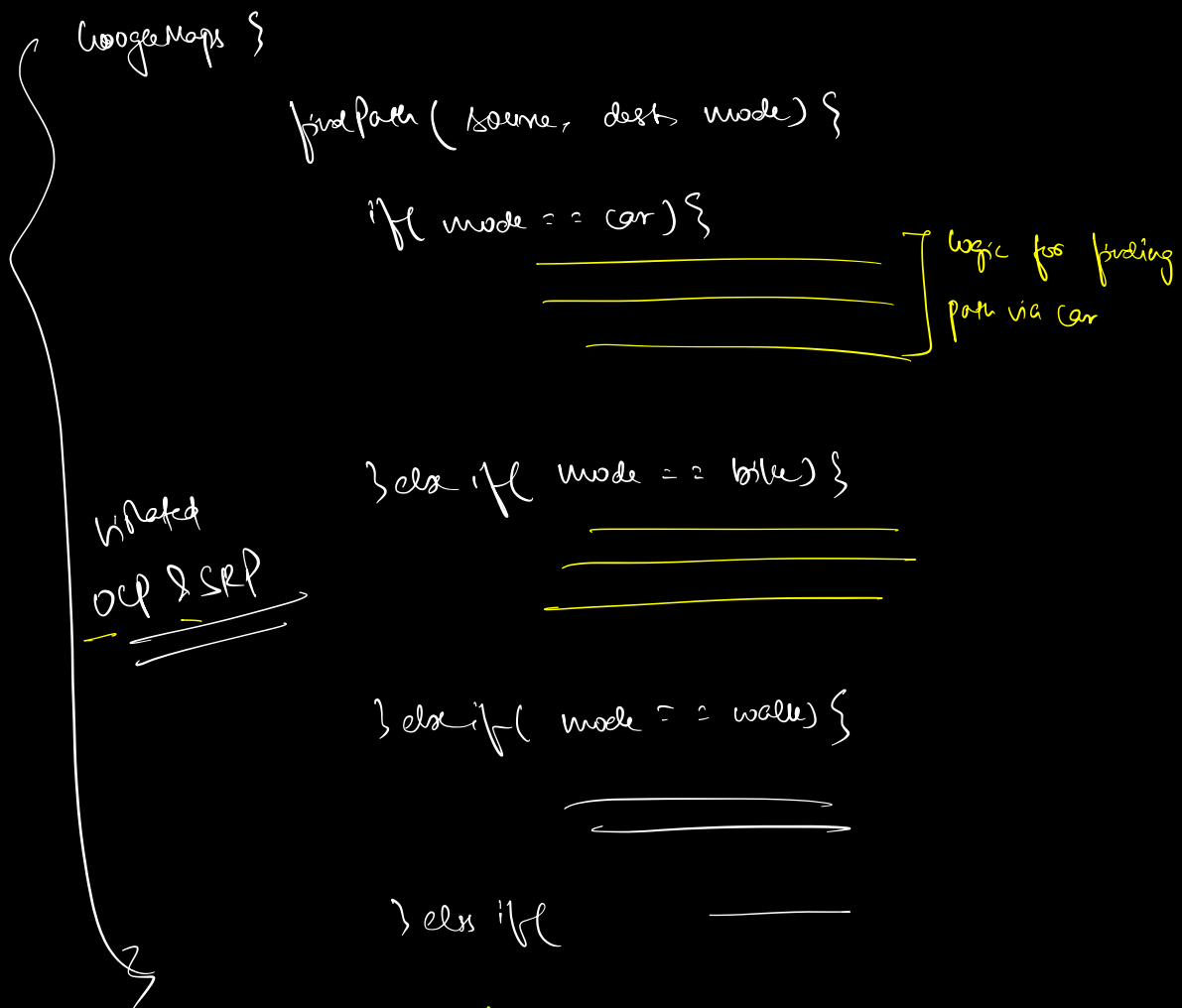
Behavioural Design Pattern :-

→ There are some special kind of behaviours that need to be implemented
 ↓
 It helps with that

: Strategy Design Pattern :-

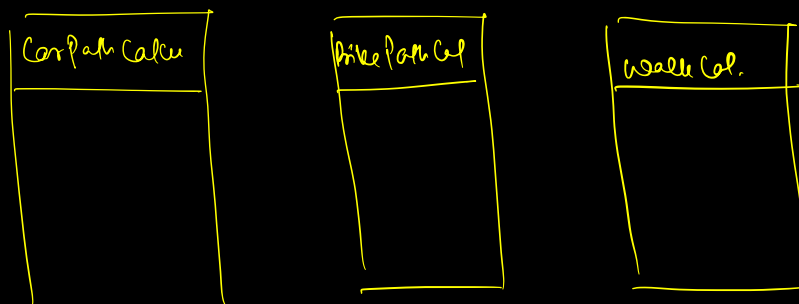


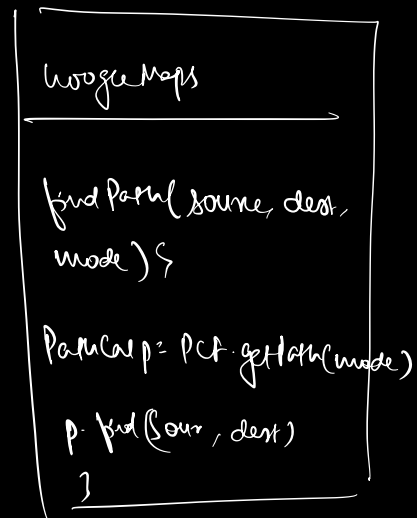
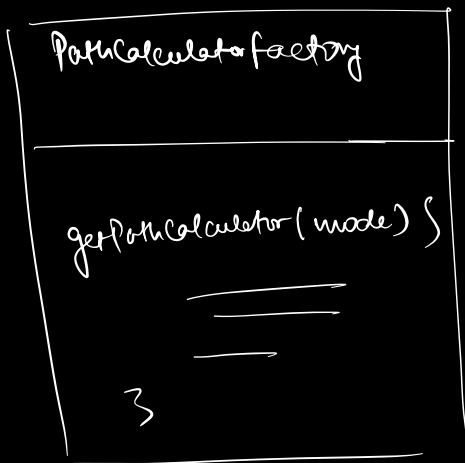
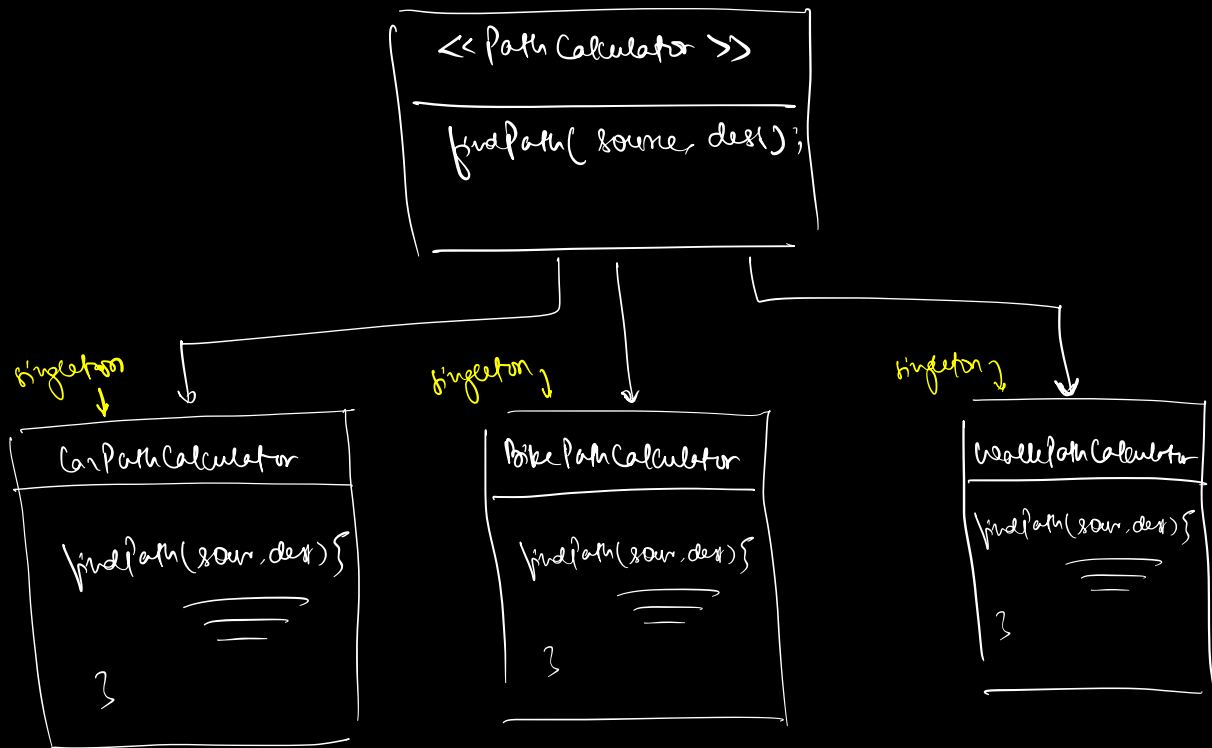
So, when we choose / search for a path from location A to B in Google maps, there are multiple ways of transport, for each mode of transport there may be different ETA & path.



When there are multiple ways to do something, often we might see violation of SRP/OCP, because algs People might take care of the different ways by using multiple IF/ELSE blocks.

∴ Rather than implementing behaviour in a method, implement that in a separate class. For every unique way, create a particular class.





PartCalculator factory

CarPartical c = CarPartical.getInstance();

BikePartical b = BikePartical.getInstance();

WokePartical w = WokePartical.getInstance();

getParticalculator(mode) {

if (mode == car) {

return c;

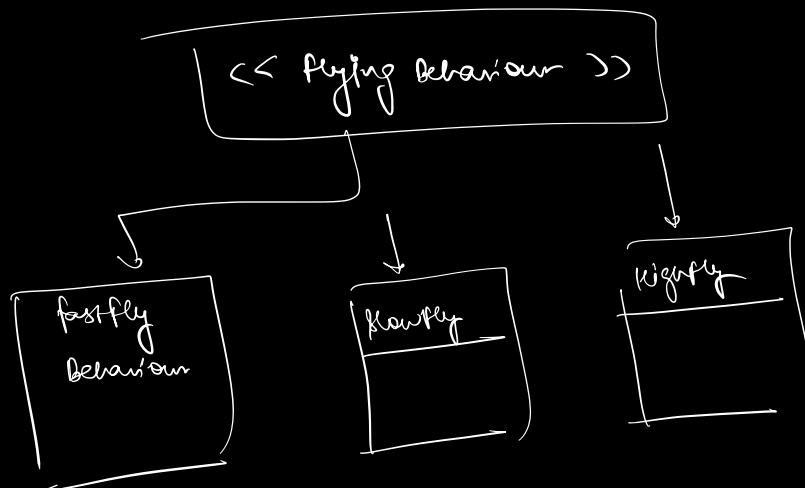
else if (mode == bike) {

return b;

else
return w;

→ each type of calculator
is a singleton class

Strategy = [multiple ways to do something, choose a particular
ways]



Ans

Rain water trapping

	TC	SC
i — Br	$O(N^2)$	$O(1)$
ii — middle —	$O(N)$	$O(N)$
iii — best —	$O(N)$	$O(1)$

* Create a strategy to solve the rain water trapping problem in any way