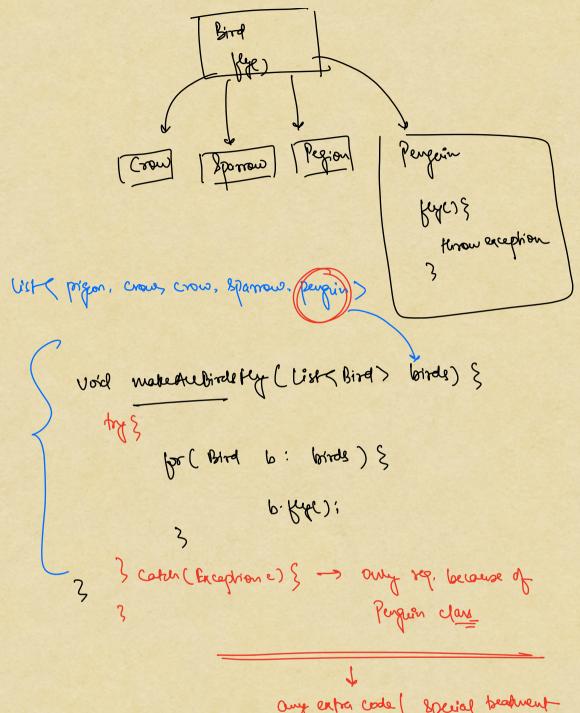


LSP => Uskov Jubskinskon Principle without any extra effort

5 Object of any child clam should be as is subskinsters

Defin => Object of any child class should be as its substitutioned in a variable of the parent type without requiring upcasting any entra effort or code changes.



any extra code | special breakment
to accomodate any child class obj
on pasent sext. variable, 9s violation
of LSP

Deft: It a parent class has N child clames then object of only of N child clames should be carried upcasted to parent ref. variable without any cates effort.

pulser void method (Parent P) }

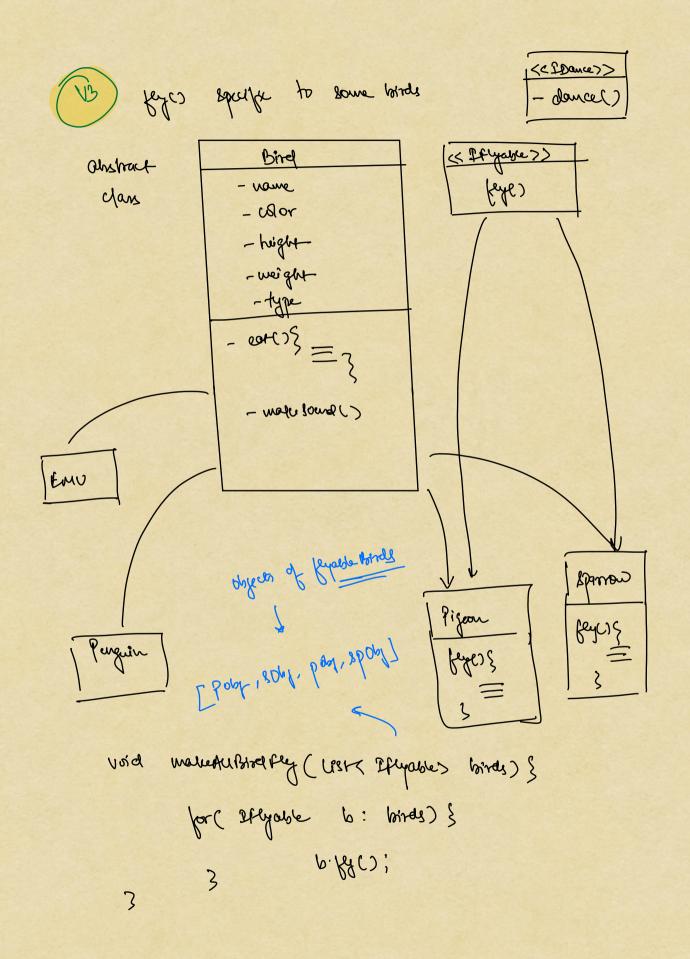
Possible Scenario for 187 Wation!

· overridding: and change the objective goal of method.

Vehicle
Startfingine()

Teh Eletic

Rumolde & punc) & 3 Person Purplements Runable } runc) § Lamd Jokuby Bird 智の多多 Penguin from excep 3



Class Pigeon extends bird Purphements Efficielle }

3

=> for any new board

Clan Bird Name extends Bird suplements Effrable, 20ans, - }

3

N features = 2 Nonsheet Clams

N features => Nontenfaces

awy interface & related to I action.

ISP: - Interface begregation Principle

-> Interfaces should be as light as positive

-> As less methods as possible

-> I deally there should be any I method in interface

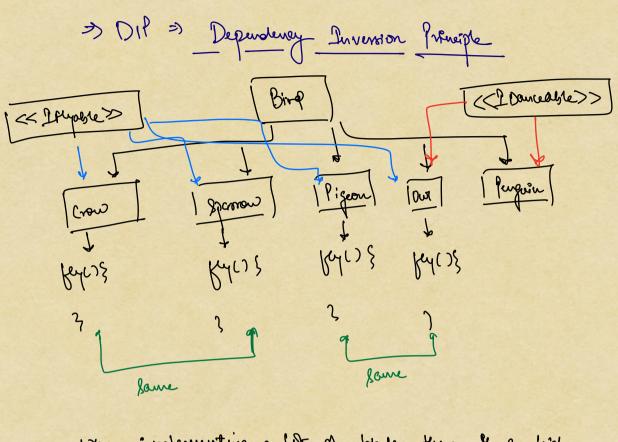
helps to implement to be interface

lambda begrennage

I abstract method

3) Combrue methode by on Interface which logically belong together

= {SRP for Interfaces} = {ISP}



possibility of duplicate by behavior hence code diplication

Agrune

Crow & Sparrow have some fly behaviour
Piquen & Out " " "

Por

Grou	uspamow try Behaviour
w	for fey () }
3	

Pigeon Dur Ply Behaviour
do feyer &
3

Crows

Crowsparnowspry behaviour

Cs for: new (row --- ())

Fry() {

Ce for waterfry();

}

Aparrow

Coustparnowthy behaviour

Cs fb: New (row --- ())

Fly() {

Ce fb. waterty();

}

Pigeon

Pigeon

Pigeon

Pigeon

Pofts: doff();

Pofts: doff();

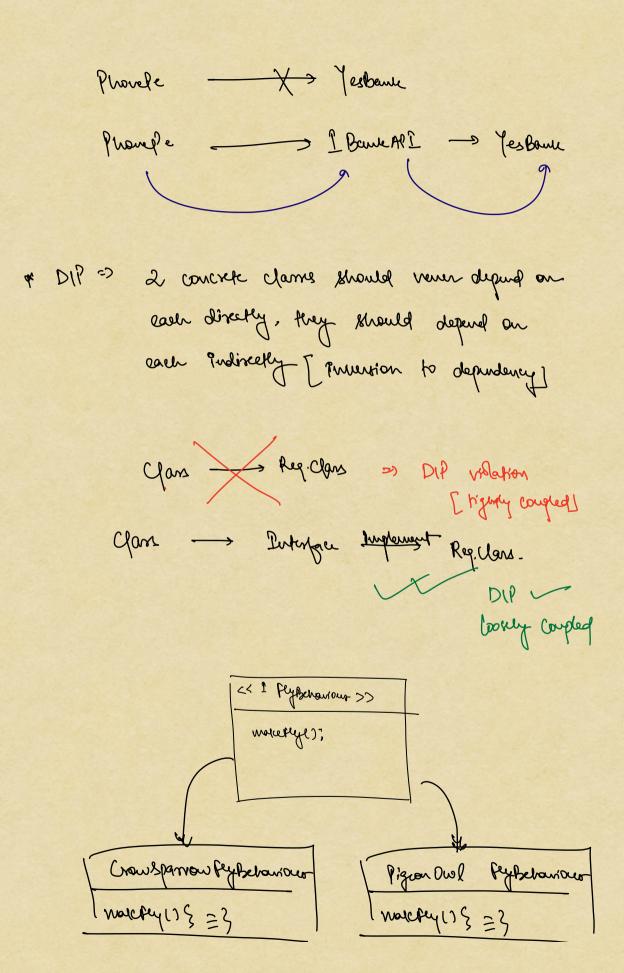
Piganowstey behaviour

pofto: new Potal);

feye) &

pofto. doffy();

}



Fryshelmorour &b

= new (now --- ()

though whit dependency

that dependen

21 } yun(); }

\$2 \\
nunc);
}

class C implement St. Is &
run() &
run() &
runph
7

[1 i, 2 now ([]; in ran()

[2 iz: now ((): iz.run()

Clars Crow entende Bird implements I flyable & flysbetrariour fb;

public (row (Feyschartour fos) &

this- fos = fos;

void fey() }

for moverly(s),

interface Physichanioner & void makefy();

3

Man fastion ply Behaviour Emplement flyrsebourour } void makerpy () } clas Main & psum() } Crow c = new Crow (new fast low PyBeben ()); c. fey(c); HW Write the find verrion Bird in code