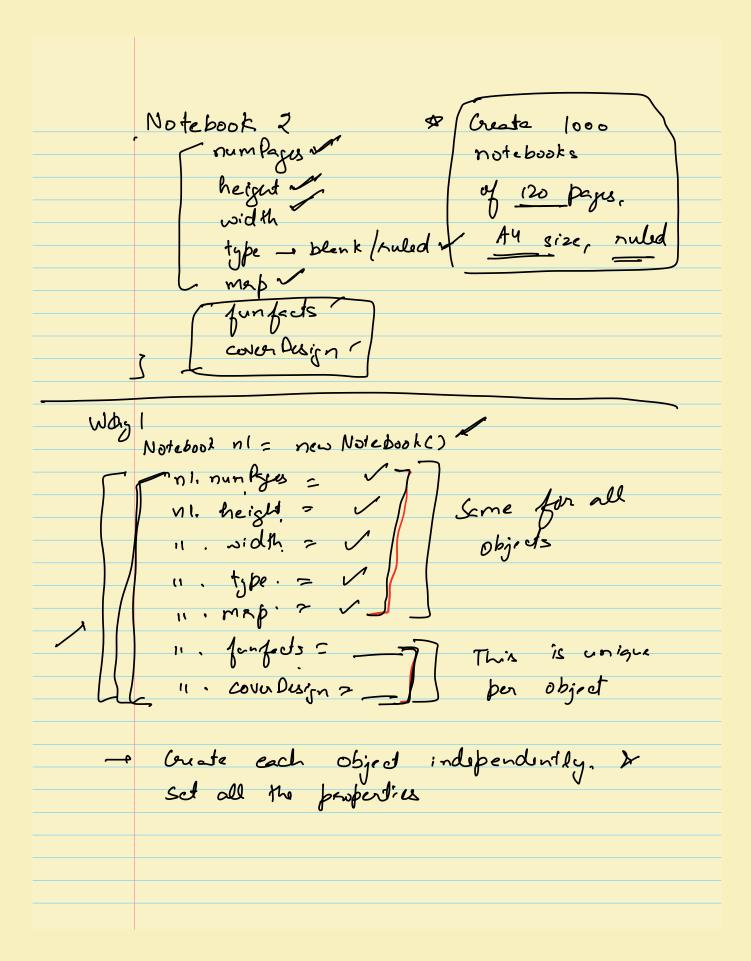
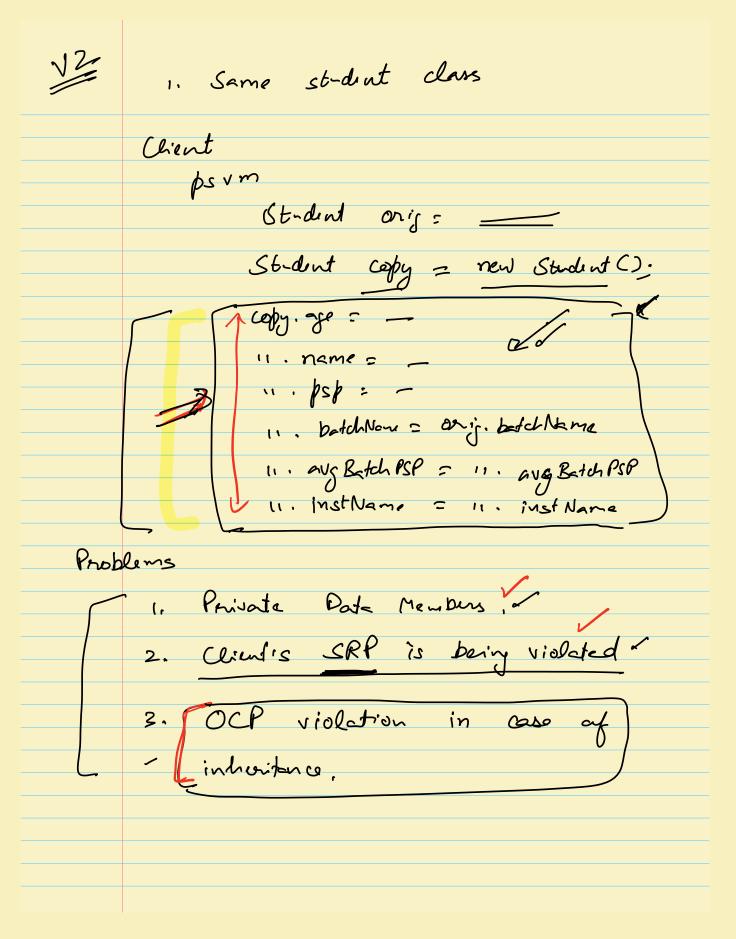
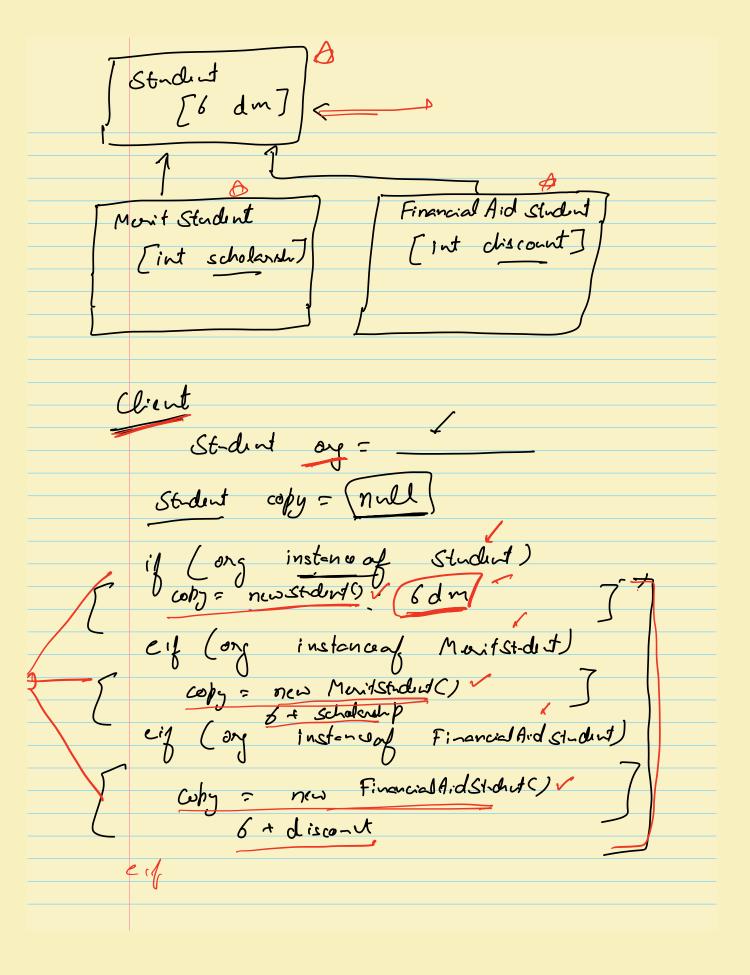
	1. Good Evening
	2. Lecture begins at 9:10 pm
	3. Topic L'Prototype & Registry Design Pattern.
	Agenda
	1. Phototype Design Pattern 2. Registry Osign Pattern
	em State ment
١٠ ٧٠	We need to create a copy of the
	object



Create a protogpe Stare the parto type in sugistary On object demand 1. Let prototype from the sugisting Clone .il. 3. Make changes [for unique } (peoperties] 4. Return the object Client Notebook ong = Note book Registry. set " AY_ 120_ ruled"); Notebook copy = ong. clone(). -copy. furfacts = - q copy. cova Design = Registry can be implement as singleton,

Need for prototype > Registry 1. Scenarios when multiple objects are prequired, which have some unique properties, and a lot propordies ar similar How to create Parto Typo D Registry Student ? Dut id; Chrent o age. public Studial org = _ # betch Name Student copy = ong; # tust Name. H ang Batch RSP copy, age = 10 / oy, ag,?] copy in this case is just a new suference for the same instance. If Something change in copy, ong also changes.





Studied V3 St-ch.d(st.)

(t.id=ch.id COPY CONSTRUCTOR OCP is not salved. 91-else Problem block will ctill tremoin in client Chient St-dut org = Stadut copy = new. Student part id; Student (Stodent 0) } this . id = [9. id; _3 Chint

& private den are visible inside The class [cten] not only of the current object, any object of the same class. Why OCP not solved? Client void fun (Student org) ? Student copy = new Schudent(ag) = new MSEducat (ay) O_A = new FASteduckay) - else blocks - oct is violated.

Copy Clar con't be used **O** of OCP violation clone Method inside Student Mw1 Student FA student Mstaded Client for (Stadent org) ? student copy = org. clone() violation · No if-else blocks Method called salu d depends on Instance Stuched clone u not Reforme FASt-dh.d M Ste chet clone don. clone - copy Ctar

Break - 10:20 - 10:25 Li Code [clone & copy ctor] Shallow Copy Deep Copy vs class A ? _ int x; ~ Class B 2 int z V. - int y; V (C oc) - (B ob) ~ Class C 2 A obj = new A()

$$06j \cdot x = 10$$

$$y = 20$$

$$y = 20$$

$$y = 30$$

$$y = 00 \cdot 00 = 2$$

$$y = 00 \cdot 00 \cdot 00 = 2$$

$$y = 00 \cdot 00 \cdot 00 \cdot 00 = 2$$

$$y = 00 \cdot 00 \cdot 00 = 2$$

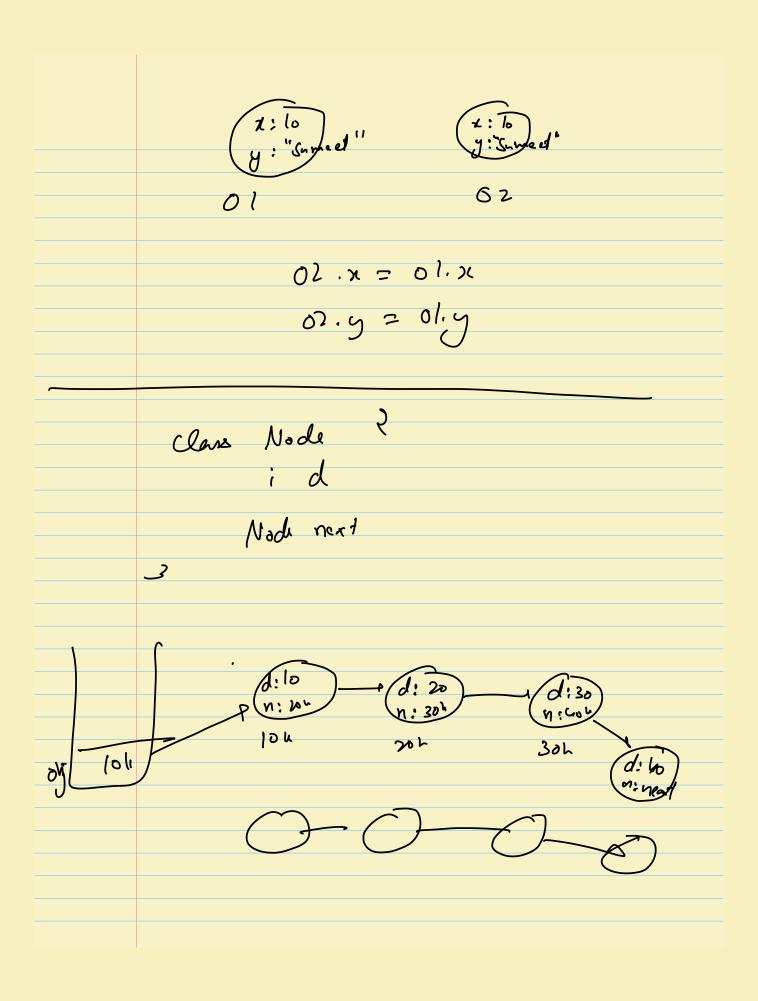
$$y = 00 \cdot 00 \cdot 00 = 2$$

$$y = 00 \cdot 00 \cdot 00 = 00$$

$$y = 00 \cdot 00 \cdot 00 = 00$$

$$y = 00 \cdot 00 = 00$$

$$y = 00 \cdot 00 = 00$$



Shallon Deep VS ગ 05 close C) 7 clone() ? A copy = new AC) B copy = new B() copy. & = this. x Coby. 2 = 14is.2 copy. y = thing copy.oc = this.oc. done - . ob = this.ob.clone() s h copy 3 n copy clove () 1 C copy = new (C) copy, a = thisa ncopy.

Clone s y To implement dup copy what should of clone method be like? A copy = new AC)

Copy. x = This. x 7 Strin [copy. ob = this.ob. clone(). Node ? Node left.

Node right.

Notebook

Registry

The place where

samples on prototypes are

stored

register (s k, Student any)

student set (stein key)

Map < string, strengt,