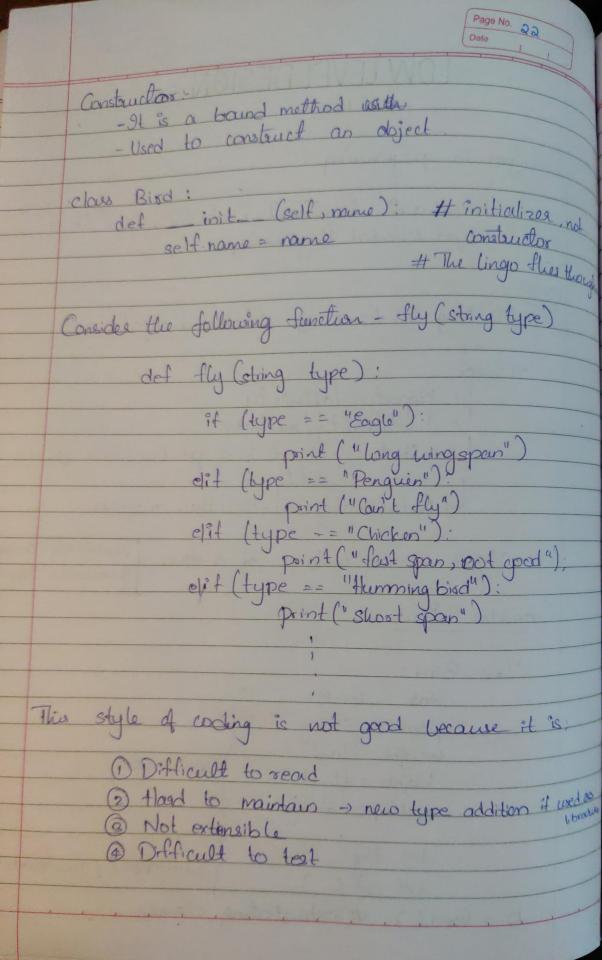
	Page No.	
LOW LEVEL DESIGN	Date	
COVVLEVELDESIGN		
101		
D 12		
Paradigne in progranning:		
Poocedieal Proting Of	De Die	
- Procedural, Functional, Declarative, Event Driven, - Object Oriented Programming		
J sogranming		
OOP		
- Thinking in 1		
- Thinking in teams of entities and of	ojects.	
	3	
- Object		
5 Properties fatticules 5 Functionality ( methods		
Functionality ( methods		
State - Object is a specific State for an		
ontity-		
5 Relationships with other ob	gjects.	
-Object is an instance of a class	Abstocition, Encapsulation	
Chat piermit is new 1 14	Inheritance, Polymosphin	
Consider Bird		
Class Bird:		
color: RGB		
spens : Stoing		
in the Florid		
hight : float Attributes		
1 15 mg string		

functionality (methods

det fly ()

b = Bixd(). It instantiating clauses



		Page No. Q3	
	Solution to these problems -> At	notacition	
	Abstraction:		
	- Hides the details of implement - Not being concerte - Not carring about the exact	lation	
	- Not being concecte		
	- Not caring about the exact	details	
	<u>V1.0</u>	Note s-	
	7 Claus Bird &	- Abstraction goes	
		hand-in-hand with	
		generalization.	
	void fly () &	- Generalization :-	
every	print ("flaps wings");	Taking all the	
eagle is also	3	common things/	
a bird	3	attributes / behaviour	
	Class Eagle extends Bird &	& put it somephore	
	11 All the altains & foce get copied	- You can achieve	
	@overvide	generalization by	
	void fly() {	abstraction.	
	point ("Spread Wings"):		
	g ·	The state of the s	
	3		
	Class thurming Bird extends Bird &		
	@overgide		
	void fly() {		
	point ("Vigosously fly/flap the wings");		
	3		
	3		
	Benefits	1 6	
	1) Readability improved		
	@ Improved maintainability -		
		the behavior of a particle	
	3 Extensibility improved - Con e	clous, create new birds	
	(3) Extension bypes.	0	

	Date.	
They bore you to implement the behowious of the function in the inherited/child clauses		
in housed	1 CVI IN OVERVIES.	
Jowa	-> One cannot caeate	
	abject of an abstract	
abstract class B& abstract void fly()	i clas	
2	-> Abstract class can	
class C extends B &	have concrete methods.	
class C extends B & void fly () {	This holps in generality	
	100	
3		
Note 3-		
Note:-  1 Bird b - new Eagle (): V valid since every  eagle is also a		
cagle is also ce		
bird		
@ Fagle e= new Bird (); X amalid.		
~		
Income of (1) => b. fly()	shoill call the fly method	
irside Eagle.		
This is ountine polymosphism.		
	P 1.4	
Abstract on	Encopsulation	
-tháng details	- Hiding / wortenlling data	
	ascers modification	

Encapsulation Example: class Redangle & int h; int b; public Rectangle (int h, int b) {
this h = h; word int area () { relian htb; Rectangle &= new Rectangle (2,3); 8. h = 6; 11 here, we can change 11 the value of h. 11 21 we do not wish to 11 let the user do that 11 we make b & b Private acces modified - Python how no encapsulation. But we can simulate it using closures & inspectors.

	35	Page No. 27	
	Vendin	Dafe	
	Design a Coffee Marchin	0	
	J CONTROL MORENTE	) (	
	Requirements		
		ma Corrediante	
	- Makes beverages based on some ingredients - Should have a display		
	- Show the stock & poice of it	ems & the projections	
	· World Cost		
1	- User can interact with this me	nu 8 purchane bevercoges	
	- Cost of a dounk is determine	d by the cost of	
1	the items ingredients.	0	
	Plains - Entities; any - Attails s/behaviours		
	verbs - behaviours/selationships.		
	Entities		
	Beverage	Vending Machie	
	quality, type, flavor, cost quanch-thirst(), freeze(),	height ast LOFF	
	boil(), steam(), fizzl)	color state Repar marke Bourage () Givelecept Forme	
	1	Display	
	Ingredient.		
		No. of the last of	
	Menu User		
		A 0.	
	Mote: At this point, I moved from Scales Intermediate		
-	to Scales Advanced. So the further lectures		
	would be of Advanced level.		
-		A Contract	