

1									
5				Date					
2						Page No			
OOPS in JAVA									
2	TOP A TOP			1		And the Anna and t			
2	(la	us v		1	LASA A				
3	35,852.37	Object	met	nod	4	Pillars of o	ops //		
-		ar ithe		ethod		Abstraction			
2		(1 st (1 st	Passi			En copsulati			
2				0		Inheritance			
3		Le Maria A		d Hill		Polymorphise			
3	# Class								
-	Is usue defined blue print from which objects are velated.								
-	Le create multiple objects of the same behalliour.								
	4 class contains fields & methods to describe the behaviour of an object								
7		10.00	Litera F	hings	9 -	J. Selection	Contraction Squared		
	It Java a	onstructo.	YS			The second			
3	Is code that initialises a newly greated object.								
	O Default contractor @ Parameterized Constructor								
	(No organization) constructor is called parameterized								
9	as it contains one ormore								
9	I close veation by compiler if no other parameters. It's used to provide								
9	constructor is declared. different values to the distinct								
4	*						e time of their		
13	2004	deleth.	<u> </u>	Eddines.	(	ruation.	3 43/03		
5	# Modifiche		alla		4		100		
-5-	· Acres Modi				11040		ess modificus		
		Private	Default	Protectel			hus attribute		
-13	Same class	<b>/</b>		V	1		t on fre class		
-3	4 Package subles			V	1,		e defined, no change	٤ .	
-70	non subclass	×	V		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	: make classes	-	
3	Diff. package Subs.	1 1	X	×	,		fune abstract		
3	Diff. P. non subs	1	×			- Synchronize	ed: Used to syne to	ne ·	
-73					-		thread.		
	DELTA Notebook	*			• •		· · · · · · · · · · · · · · · · · · ·		
O	DELIA Rotebook								

Date	V.						
Page No.	6-						
# Inhoustance (Pillar I)							
is property of a subclass to inherent properties & functionalities	6						
from the parent class	6						
All objects have "Object class" as mir povent class.	6						
- Methods can be overviden but attributes cannot.	6						
	4						
To call a parent class constructor, supre() is used.	A						
Single Inheritance Multi Level Introvitance	4						
Sub class in herits more than I parent but at							
propulties of a single parent different levels of incheritopice	S						
Class A → Class B → Class C	6						
CO. I. Co. I. Co. C.							
3 Hierarchical Inhuitance (4) Hybrid Inheritance	9						
I parent can have V combination of more than I	9						
more than I child type of inheritance	0000						
Close # (3) Multiple In helitance	1						
closes as it	5						
leads to chamonal Problem.							
- Compagne	9						
Class A & when I class was multiple pounts	C						
class & class constructors & distructors	CI						
class D of class A is called twice when class D	N						
is constructed or distroyed.	6						
# Association: · Relation between 2 different clarges, established	0						
via objects.	0						
( ) One to one (3) many to one	0						
(1) One to One (3) Many to one (4) Many to Many.	G						
	6						

# Polymorphism: (Pillage)
4) Ability of a Corrioble) function to take multiple forms.
4 Allows one method to have multiple implementations.
* compile time Polymorphism + Runtime Polymorphism.
(Static Binding) (Dynamic Binding)
[Example: Method overloading] [ = Eg: Method over riding ]
Type of object is determined at soverridm method is usolved at
the compile time. lumtime.
Eg. add (int A, int B) is Reference variable is used to
add (int A) coll om overridden method
add (int A, intB, Int C) of a superclose at numbine.
Eg: class mobile
# Pillar 3: Abstraction & Good sms 00
Class one plus
Griding details I showing only necessary I book sms ()  Wrings to the user.  Main
things to the user. main
6 call sms from
(1) Abstract (loss (0-100°10) Object of one plus,
4 class defined with abstract kyword. Kun method Dis
4 conit be instantiated. called.
4 can contain abstract & non abstract nuthercls.
4 can contain constructors & static methods
4 can contain final methods which force the subclass not to
change the body of the nutred.
Eg: public abstract class MyAbstract_class {
public abstract void abstract Method ();
public void display () { System. out. print (" conclute method");
3

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Enterface: 4 An interface in jave	is a blue print of a class					
Ext cordains static constants & abstract methods.						
6 Represents on "IS-A" Palationalia.						
Elation you are to implement an interface to people use its						
were classes: methods & the constants.						
OIS-A: Eq: King (is a) fruit Eq:	public interface Bike {					
OIS-A: Eg: Kiwî (is a) Pruit Eg:	public void Start ();}					
(2) HAS-A: Eg: Boy (HOW A) NAME.						
J 339 (1121)	class Handa imploments Bike {  public void start () { print ("HBike");					
# Encapsulation (Pillar 4)						
is Binding duta using getter &	Close Richer &					
Settler methods.	a vaid main ()s					
· Steps to Adrieve that:	Rike M = new Honda ():					
5 De clare the variables of dass as	bi oslant ();					
ptivate.	}					
	(C-					
nuturals to modify & view the variable value.						
Eg: put string name;						
public String get Dame () { return name; } 11 getter						
public string get Name () { Meturn name; } 11 getter combic void get Name () { Meturn name; } 11 getter combic void get Name () { Meturn name; } 11 setter combine of Medic name = name; } 11 setter combine of the comb						
# Aggregation: -> special form of association representing "HASA"						
relationship.						
	to music of the control of the contr					
# Lomposition:						
is more justificative som of aggrugation that makes						
two entities highly dependent on each other.						
is It respuesants the fant-of relationship when the						
composed object cannot exist without the other						
entry.						