	Page No.	
	DAY-4	0
	The section of the se	
#	Philippe ve solved by a horiso such	
	· Heirarichai	
. hin	 Multiple Hybrid 	
	Simple:	
2>	Heirorichal: Abisho has a tomas	
	Parent	
	[Child-1] [ehild-2]	
	· Both children get properties of parent.	
	· Children are not related to each other.	

	Page No.
32	Multilevel:
	Thrond parent of lower levels get properties from upove levels. Parent Superco of each class can reach out to just the parent. Child
	consis Significa salo: non publica oberso
4>	Moltiple:
	Parent-1 Parent-2 Parent-2
	order of inheritance, bet
-	Child properties of both perrent.
	MRO (Method Resolution
	class e (Pr, Pr) Drder) followed in
	class c (Pr, P2) Order) followed in resolving ambiguity Priority: Pr > P2
5>	Hybrid:
	Grand Parent Mix of inheritance type.
	P-1 P-2 M
	Diamond Problem

#	Polymorphism:
	Poly > multiple / mainy
•	Morph -> shape / form
, Anna	In Simple words, polymorphism is when a single entity can take multiple forms.
•	In python, we achieve polymorphism by below:
91:	1. Method overriding. (Inheritance)
) AIS	2. Method Overloading.
	2. Operator Overloading.
•	Major benefit is that code becomes
	· John Color
c.y	diani de Miliai
_	

Specific planting

Page N	lo.	
Date		

> Method Overloading:

. When in a same class we have two different methods having same name but different behaviour depending on the input.

For e.g. Class Shap:

def area (self, 8):

return 3.14 x oxx

This format is not

def area (seif, l, b):

Supported in python.

return 1xb

· Code becomes more clean & readable.

To implement Method overloading:

class shape Combelly be con :

def area (self, a, b=0):

if b==0:

return 3.14 xax a

else:

return axb

		Page No.
37	Operator Overloading:	
Sudivos:	The behaviour of the same o different according to input	percint is:
,	For eg:	
	P'Hello' + 'World'	0.0 10
,,	Helloworld'	
	27 A 4 4 5 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	toward air
	(co.), 2102) naro 30h	hoofrogue?
	37 [1,2,3] + [9,5,6]	CASINFUE /11
	. पार्वकितिकान के वाक्षात्र १९००	100901 20001
	Motingol puri puoling &	419111311111111111111111111111111111111
	े की ए जेंद्री हुए महोगाहरी अनु ए जेंद्र	NIO TO TO TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T
	-(0-d, m. 7192) pom 39h	
	D x Dx 41.2 CHUTTE	
	des allins.	
No.		

Page	No.		
Date			

Abstraction:

- · Abstraction -> hidden
- · Nothing to write more, refer notebook.
- · decorator: @abstractmethod.
- · Abstract class:

Having atleast one abstract method.

· We cannot make object of the abstract class.