Edng but implementation is diff.). Tythen-tutorial 6 · Abstraction & Private: variable inside class Occersable anywhere 4 protected: variable within package In hython we don't use keywords public, private or proted like other prog ling , enstead we use notations modelan Person: def -init\_ (self, name, surname, olob): self. name = name ( not all variables ) self. - surname = surname necessarily be L self. \_ dob = dob protected). def age (self, current year): return current-year-self. dob def \_str\_(self): seturn :1.5 1.5 was born in 1.d. 1. (self. name, self. surrame , self. \_olob) alec = Person ("MADHU", "JAIN", 1999) print (alec) print (alec. surname) (: obje\_variable) MADHU JAIN was born in 1999 print (alec. surname) error ("Person' object has no attribute 'surnam

class Person: def init self, name, surname dob): self . \_ surrame = surrame def age (self, current\_year): return current-year-self. -- dob def -- str - (self): return "1.5 %.5 was born in 7.d 1. (self .- name, self .-Surrame, self. -- dob) alec = Person ("MADHU", "JAIN", 1999) > MADHU (Person\_name) Person\_Surrame': 'JAIN', '- Person-dob': 1999)

abstracting undiers: class tasty: def \_init\_ (self, a,b,c): self. a = a self.b=b self. c= c def test (setf); seturn" this is Public method." olef test (self): return "this is Protected method def -- test 2 (skelf): return this is private method. Obj = tasty (3,4,5) Gobj. test ()
This is Public method: (obj. test L() this is Protected method (obj = test 21) obj -tasty - test 2()
This is private method.

( Parent & Child classes) class ry3: \* rarent class def\_init\_(self, a,b,c): self-a = a def test(self): return "His is public" obj = xy3 (4,5,6) this is public. class abc (243): (class x43) pass Objt = abc (6,7,8) Obj 1:6 >7 what if we wish to inherit only few properties ? (as per requirement & also if we wish to create some new variables in child class? (class abc (xy3): def \_init\_ (self, a, b, m, n): zyz -- init\_ (self, a,b)

* args > all arguments * kwargs > key-word ary	guments (in case of)
obj2 = abc("ma"," Du obj2 · m > 5	
class abc (xyz):  definit(self,  super()i	a,b,m,n):
Self.m=m	
self • n = n  obj 2 = abc ("MA", "D  print (obj 2·m) ~5	00",5,6)
Check is instance (obj2, xy3).  two class A & B are inherited by class a such that A & B have same definitions.  class A():	True (Multiple):
class A():  def test(self):  print('A')	cbj = c() cbj · test() A
dars B():  def test(self:)  print ('B')	is inherited first by child class will be given brokerence
class $C(A,B)$ : $objA = A()$ $objB = B()$	er; here, C(A,B))  if class C(B,A)
objA·test() A objB·test() B	Mem, obj. test() -> B  So, here, C(A,B) & C(B,A)

(Multilevel) class Al): def test (self): print ("His is A') class B(A): def xyz(self): pint ('this is B') class c(B): def pgy(self): print ('His is C') > His is A Overvieding Methods (name/signature just changing body). obje test () class A: def test (self, a=5): print ("This is class A and 'a' is", a class B: def test (self, a=10): print ("This is class B and b' is", b) Note: signature should be kept same while method overviding. overoiding & overloading and deflement)