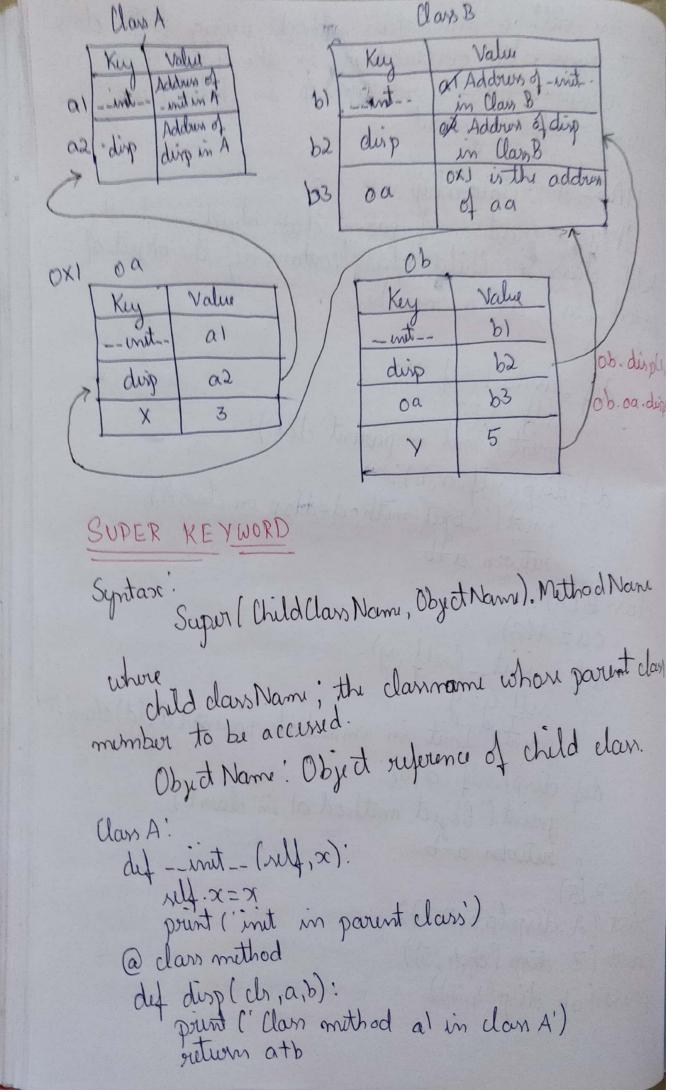
```
Static method in both pount class and immediate parent.
class A:
    a= 10
    def _ init_ (relf, x)
       self 2 = 20
       print ('init in parent class')
   @ static method
        print ( Static method disp in parent class!)
     def disp (x):
 class B(A):
     det_init_(self, x):
         point ('init in immidiate pavent')
     @ static method
      det dip ( compc):
          print l'Static method disp in immediat class')
  class ((B)
       det -init-[rulf, sc):
print l'init in child clars')
   ob = B(3)
   oc = C(4)
   A. disp (3)
  ob. disp(2)
  oc. disp (3)
ofp: init in immediate parent into in child class
     Static method disp in parent class
      Static method disp in immediate class
      Static method disp in immediate class
      Static method disp in immediate class
```

Static method in all the class [Parent, immediate parents min das A: a= 10 def -init - (relf, x): ull x=x print l'init in parent claus') @ static method det disp(x): statio dans class to parent') class B(A): def-init_(relf, x): print (init in immediate povent') @ static method det disp(x): point l'Static method disp in immediate dans) class C(B): C=50 det displa): print 1' Static method days in child method? \$ ob = B(3) OC = C(4) A. disp (3) ob. disp (2) oc. disp [3] of met in ummediate povent ent in immediate parent Static method dip in pavent class Static method dip in immediate dais

We can dell a bour clair method using child does object even after overvidding in the child class. 1) By creating has-a relationship in child class 3 Using rught keyword U HAS-A relationship It is a creation of parent class object inside the child class containing the object of parent class as a member. class A'. det -init_(ulf,x): rell.x=x print l'init in parent class) def displulf, a, b) print l'Object method disp in class A) return atb class B(A): 0a=A(3) def -- init_ (relf, y): mlf. y=y print ("Init in immediate parent (child) claril det displant, a, b): print ('Object method at in class B) return a-b ob=B(5) print (A. disp (ob, 2,3)) print (B. disp (ob, 4,5)) print (ob. disp (4,3))



class B(A): 00 =A(3) dy_init_(rulf,y); self-y=y
point ("init in immediate parent (child) clared) @ dars method det disp (cls a, b):
point ('Class mothod disp in Class 1) print (A. disp (2,3)) # imsolur object mothed in clause dans print (B. disp (3,41) MAINE print (ob. dig (4,3)) Mush point (ob. aa disp (5,6)) print (ruper (B. ob). disp (3,4)) olp int in parent clair ent in immediate govern (child) dans Class method at in classif class method at in dans don method at in darrb clan methodal in clans down method at in claim

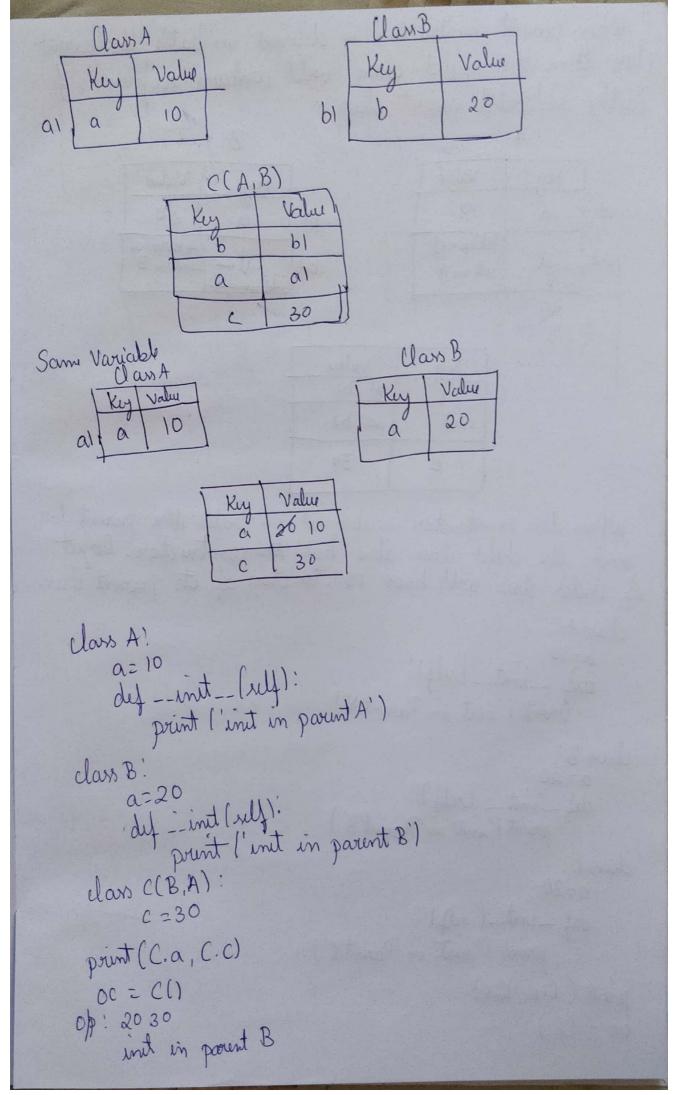
Invoking the bar clar mithod using child days object even after overeiding in multilevel in houting Clars A:

def_init_(relf):

print ('init in parent clars') det disp (rult, a,b) print ('Object clair disp in clairst') Clars B(A) 0a = A(3) det -- int [rel]. print l'init of immediate class') det disp (my, a) print ('Object class disp in class &') Clars C(B): ob= B (5) def -- init (ruly): print l'init of shild clair! def disp [relf, cx print ('Object class disp in class (') oc = (() print (A. disp (2,3)) prunt (B. dup (5,6)) prunt (C. disp (10)) print (oc. ob. oa. disp (10, 20)) prunt (0 c. 0 b. disp (10,13))

MULTIPLE INHERITANCE When you child down is outled wrong many the on parent class. Pourst B Parlot A Child SYNTAX ClanA: Class B: Class C(A,B) On Class(B,A) ie C(A,B) is defined by inherited followed by class A mimbers. Esi class A: a= 10 Clars 8'. 10 20 30 6=20 class C(A,B) C = 30print ((.a, C.b, C.C) class A: class B op: 10 30 a = 20 Clars C C=30 Drund (C.a, c.c)

Scanned by CamScanner



When parent constructor is defined in both the parent class, then the child class will contain references of lastly inheated parent class. Value Key Value Key 10 al 20 101 0 Address of Addrum of int in B A in true Value 02 62 30 C when the constructor is defined in both the parent day and the child class also has the constructor. Object of child class will have construction of its parent dans class A: det -init- bulf! print ('init in Parent A') dan B'. a=20 det - init - (relf). point ('int in Parent B') dars C'. C=30 def _ int_ (ulf): print ('init in Parent C') print (C.a, C.c) oc= (()

