## Sachin Rao

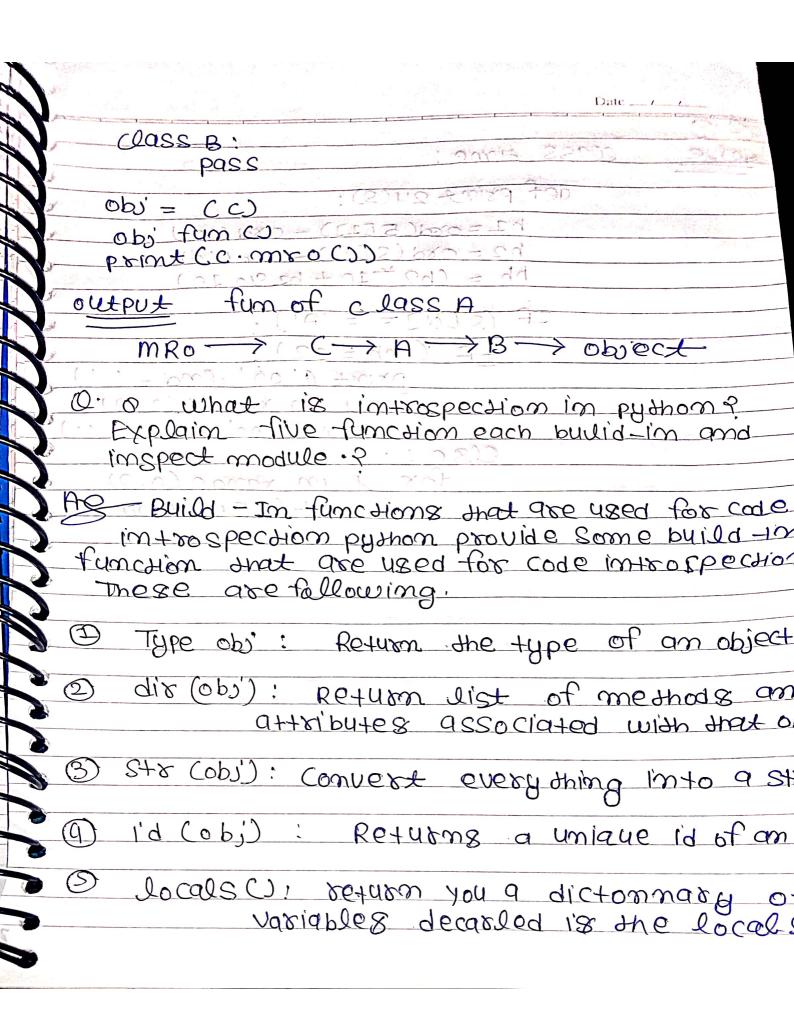
On Differentiate between
a) (neme talization and
c) multiple and multi level inheritance
22000 out module - 00 modifican maritance
20- 11 Q - Comeralization , T
combining them into 9 generalized spe class is called chemeralization.
cluss 18 called Generalization.
$EX \rightarrow CSE$
Specialization > 18 the reverse process of
Chemeralization. Ex AIML, DS
CSE TE
CSE (SE)
(2, A)) (2, E)
500 2 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IOT AIMIL S
[HZI-14] (ART) [ZRID)
Abstract method -> which happens maine
Abstract method -> which happens inside the method class. and If
you don't do anything there It is alle
965+89C+ method
EX class A:
def funcself):
or Pass -> imple mented
that is declared but not implem-
ement

A OF BUILDING

What is imperitance of what are it's away The method of imheriting the properties of parent coass into a Child cooss is known as imberetance. It is transitive in nature . If a child imber its brobergies trown à barout crossi them, allother sub-classes of the child coass will also innevent the properties of the parent class. 0.3 Solve Class Theory: marks = [] de f getdata (self, name, m1, m2, m3) Theory, name = name Theory-marks append (mz) Theory marks append (m2)
Theory marks append (m3) def display (self); print ("students details") Point ("mame", Theory oname) Print ("marks:, self. totalc)) def total (self): m = theory marks return m [0] +m [1] +m[2] def anorab (Seo (7), m=(theory, marks)/3 CSJM+[[]m+, []m mapper

ciass Nab: Laborarks = []
def Betdata (Self, A, P2) Lab. Labmarks, append (P1) Lab. Labmarks, append (P2) det display (seef): Print ("Lab details") Print ("marks", self. +otal()) det total (self) m= lab·marks in put CEnter the name: ") mrite short motes om: 0.4 Super () Function polymor phism Pathon supercy function provide Syper us the facitily to refer to the parent class explicity. It 18 basicaly useful where we have to call super-class functions it returns the proxy object that allows us to referrent class by "super". Polymorphism = one name many form. Palymorphism 12 taken from the cireek words poly (many) and morphism (forms) It means that the same fun ction name can be used for different types. wakes book raw mind more and pasier: meshed oversiding & Explaine mIgh aw Example, 3 we can define functions in the derived class that has the same name as the MARCHEN A TOPICATE DATE DATE DATE DATE DATE DATE function in the base class. Here, we re-implement the functions is the derived class. The phenomenon of re-implement ung a function in the derived class is known as method overlaing. EXY coass sachim: def fun (self). print ("fun of class A) class Rd O: def fun (self): Print ("fun of class B") Op) = 18 (5) - 1 11-3 - FINIRA obs' - func) output fun of class B Q.S What is abstract class? How do you write an abstract class in python? Anclass is called Abstract class if it contains one or more abstractment 5 when -> abstract methed -> Pass 3 An Abstract method is a method that is declared but contains no impl menation Abstract classes cannot be in stamitated and its abstract method must be implemented by its sub cla

trom ab c import ABC, abstract meshed Class Jay (ABC). 9 9 bstract method def fum (self): Pass class try (Jay): def fum (self)! beint ( "I am teh ") Class Re CJay): def fun (self): Print ("I am Re") class He (Jay): def fun (self): Cul at who Ing the 11) 0.7 What 18 method resolution order (MRO)? Explain the principles fallowe by MRO with Example? MRO 18 9 concept used in inhertance it is the order in which python looks for a method in a hierarchy of classes 14 is especially useful in pyonon because EX - C2988 A:4 def fun (self): print ('Fun of class A')



```
coass time:
   def print 24(S):
       41 = 029(E[1]) - 029 (,0)
       h2 = 08d (S[0]) - 08 ('d)
       hh = (h2 × 10 + h1 % 10)
      IF (S[8] = = (A1).
          TF ('hh = 12):
                 print ('00', emd = (1)
                for 1 in range (2,8)

Print ('00', end = ")
          els e
                 of print (Stip rend = ")
```