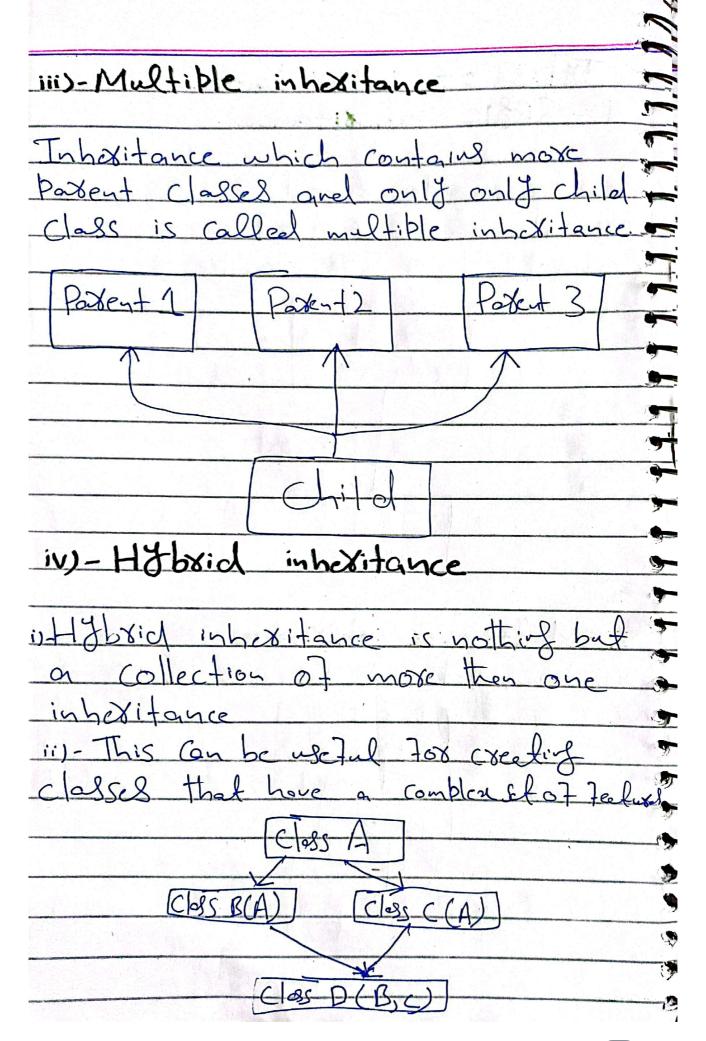
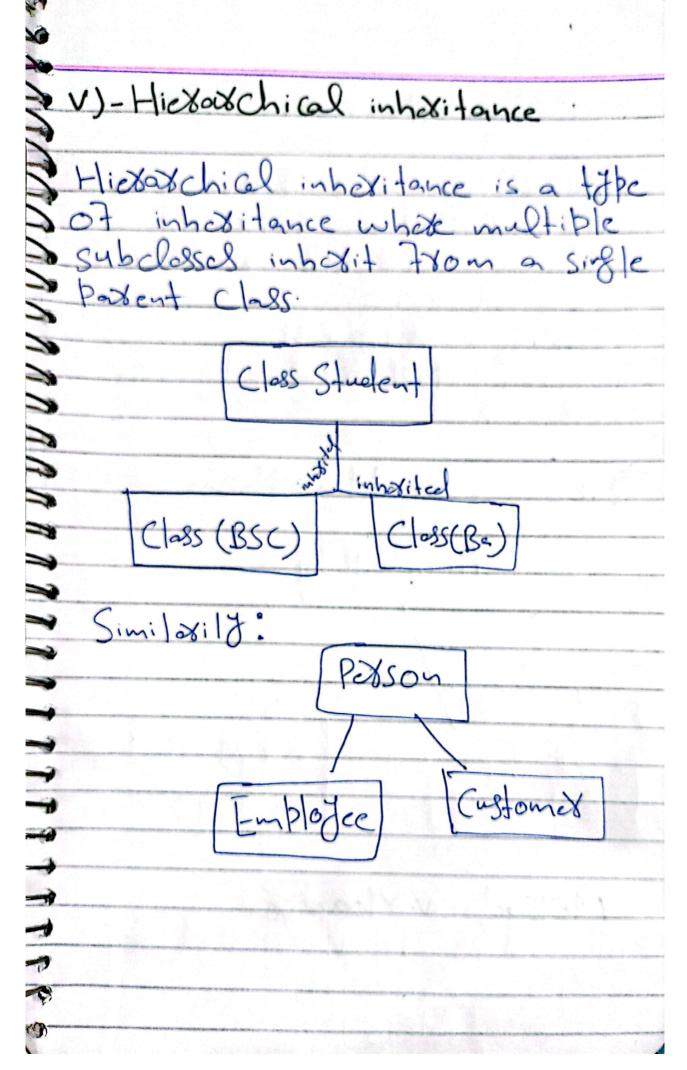
## (HP 07 OOPS 1-Python classes and objects (i) - Class: - A class in Python is a bluebyint 70% exealing objects. It define the behavior of the object that will be created from it. How to exerte a class in Pathon Class classueme Class body (ii) - Object :- Object is an instance of a class. You cannot access Class properties without an object How to create an object my-class = classneme () This code will overle an object named my-class.

## 2- Constructor in Pathon i)- Coustouctor is a special member tynction which calls wheneved object exeated of that class. ii) - Constructor is identified by - ) yveldscore. iii) - - init -- Function: This tunction is called constructor. How to define constructor det\_init\_(Selt): Constructor 3- Inheritance in Pathon i) - Python Supports inhexitances it even syphost multiple inhoxitance ii)- Class Con inhoxit From one Clars to another. For example. Cass 1 inhabit 28()

Types of inhexitance i)-Single inhexitance Sirgle inhexitance there is one paxent class and class. Fox exemple: 1 Parcent class 3 1 Inhoxit 3 1 3 ii)-Multilevel inheritance multi-level these are level of closs Parent Class inhoxit 546 Persent class inherit 1 0





4- Polymox Phism in Python Polymorphism is the ability of a method to behave differently defending on the type of object it is Called In Python, Polymoxphism is achieved through inhexitance and method oversiding. Types of Polymorphism Polymorphism Method i)-Method overloading Python doesnot support method Over loading because it intexpreted language with althouse

ii)-Method ovoxxiding Method ouchsiding is the example of sun-time polymosphism. ii)-Method ovoxxiding allow on subclass to provide a new implementation Fox a method that is already defined in its parkent class. Rules of method oversialing

The method name return type and payameters must be same > & Inhexitance is mandaloxy 5- Abstraction in Python -in-Abstraction is a process of hiding - the implementation defails of an object ox a system From the user. ii)- In Python, Abstraction Can be achieved using abstract classes and methods. For exemple: Class Abstract Clas: def abstract method (sel7): Pags

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