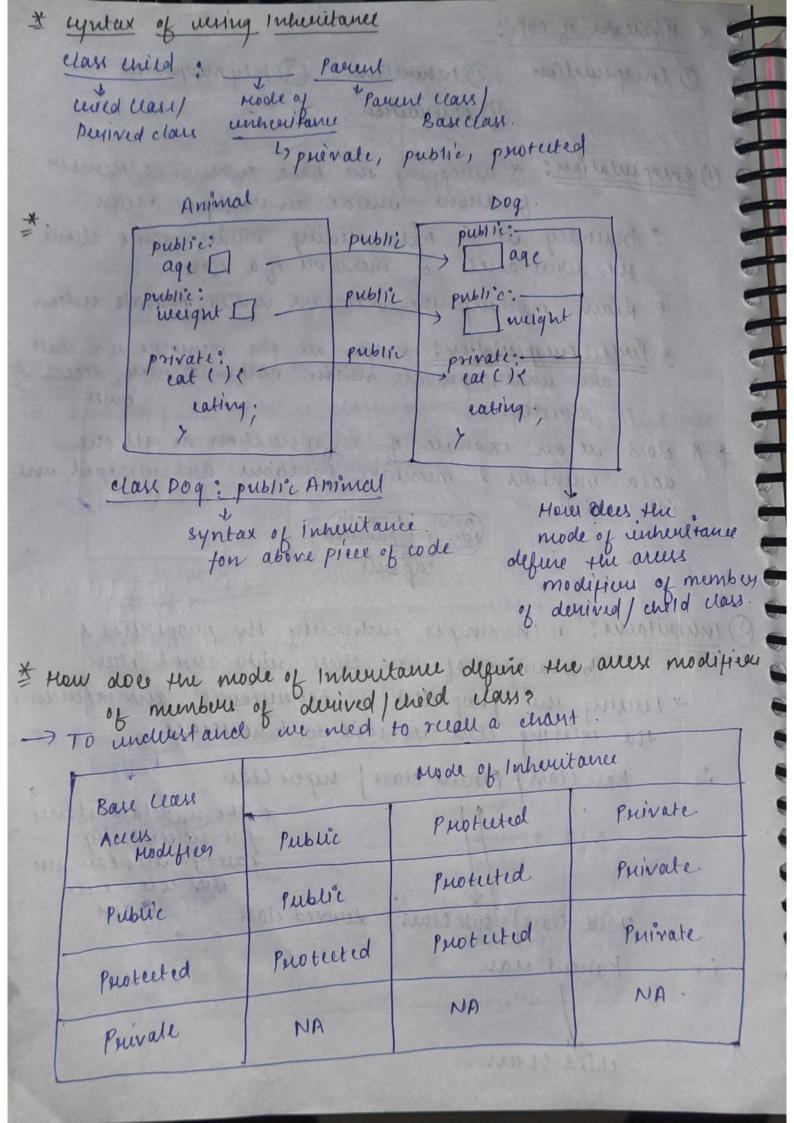
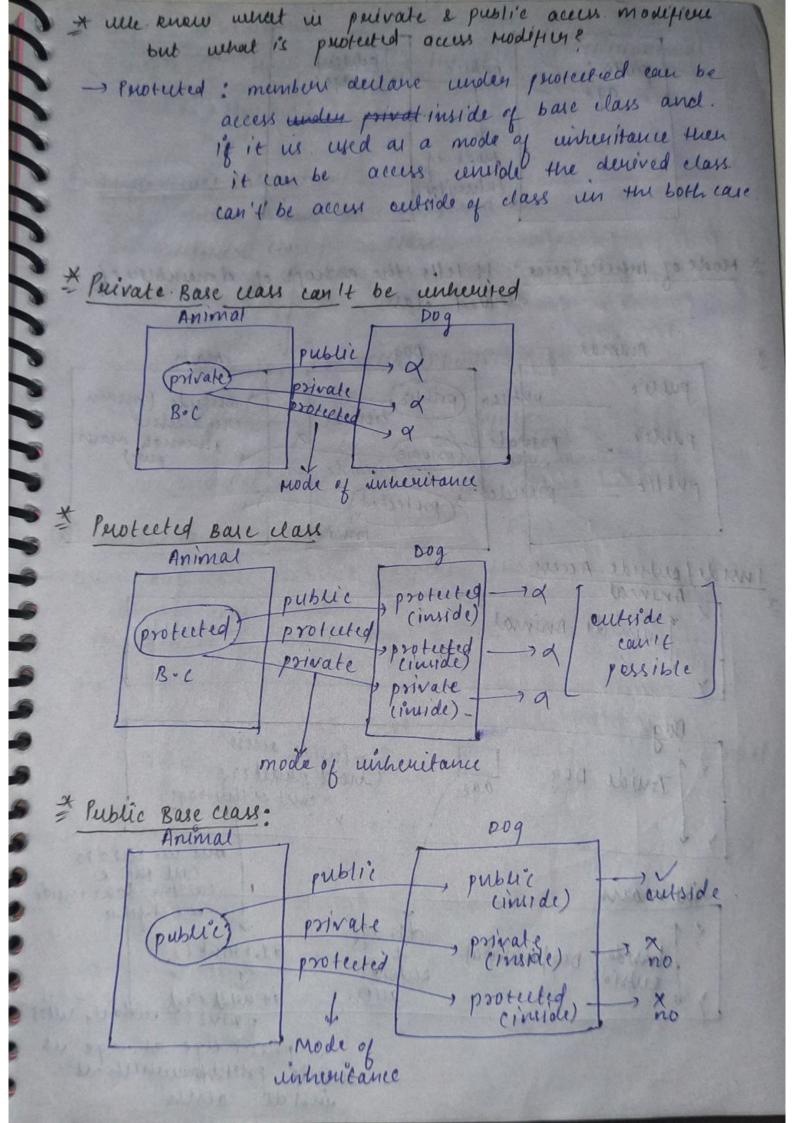
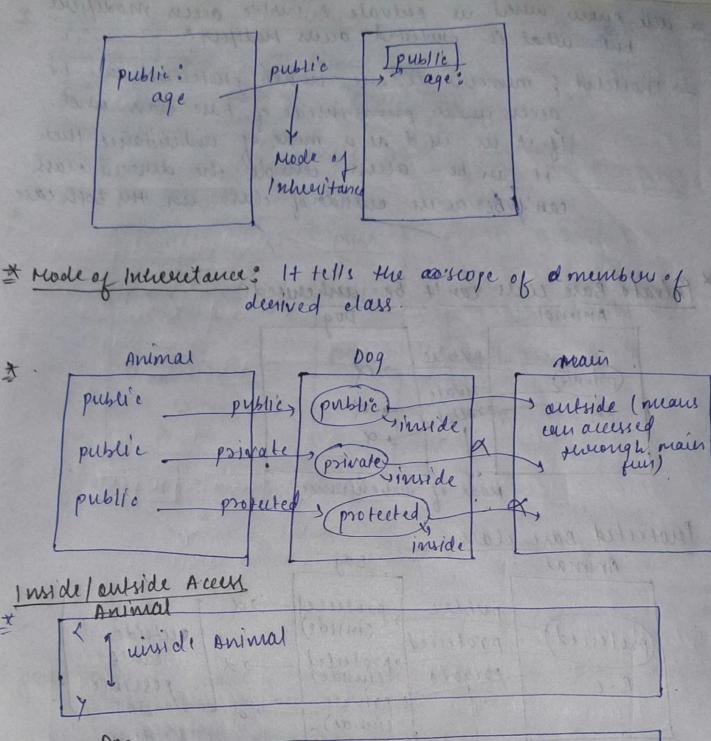
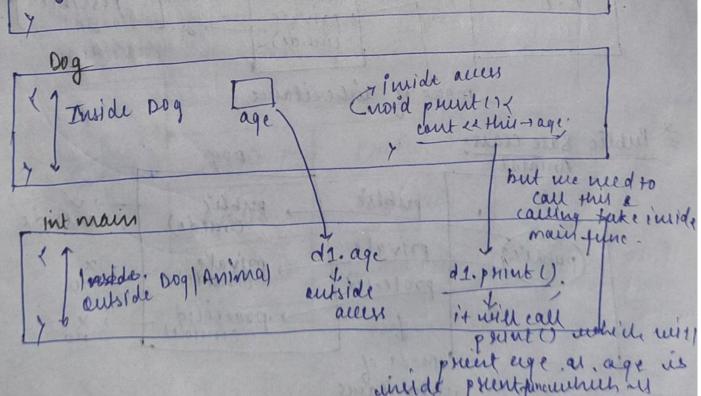
* 4 pilean of opps: (3) Poly mouphums 1 Encapsulation 1 Inhuitance 4) Abstraction D'encapsulation: * menopping sere pata membre à membres function unside an entity of a class. * Barically uit is Data Héding munich don't allow the direct access of members of a class * man marking the members werder private section. * Perfect Encopsulation: numer all the members of a class are under private section which a user, access can't directly. it desertly. A class il an example of encapsulation as all the data membres e membres functions are wrapped wirs--i'de a class capsule. Inheritaire: * In simple unherling the properties & behaviour of base class visto child class * Reusing the proporties e behavieure and extendery the existing class in said to Inheritance Base class | Parient class | super class * alle ned Inheritance for occuseability jactor me can me the code que child class | sub class Parent class child class



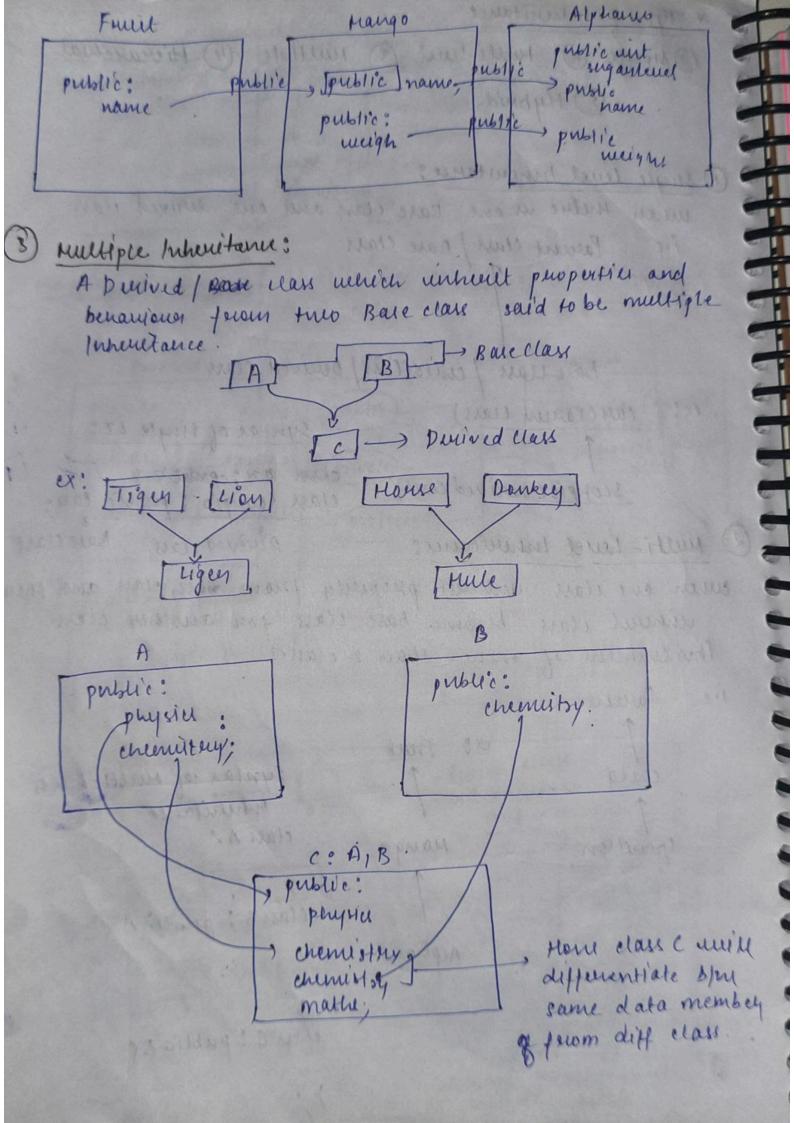




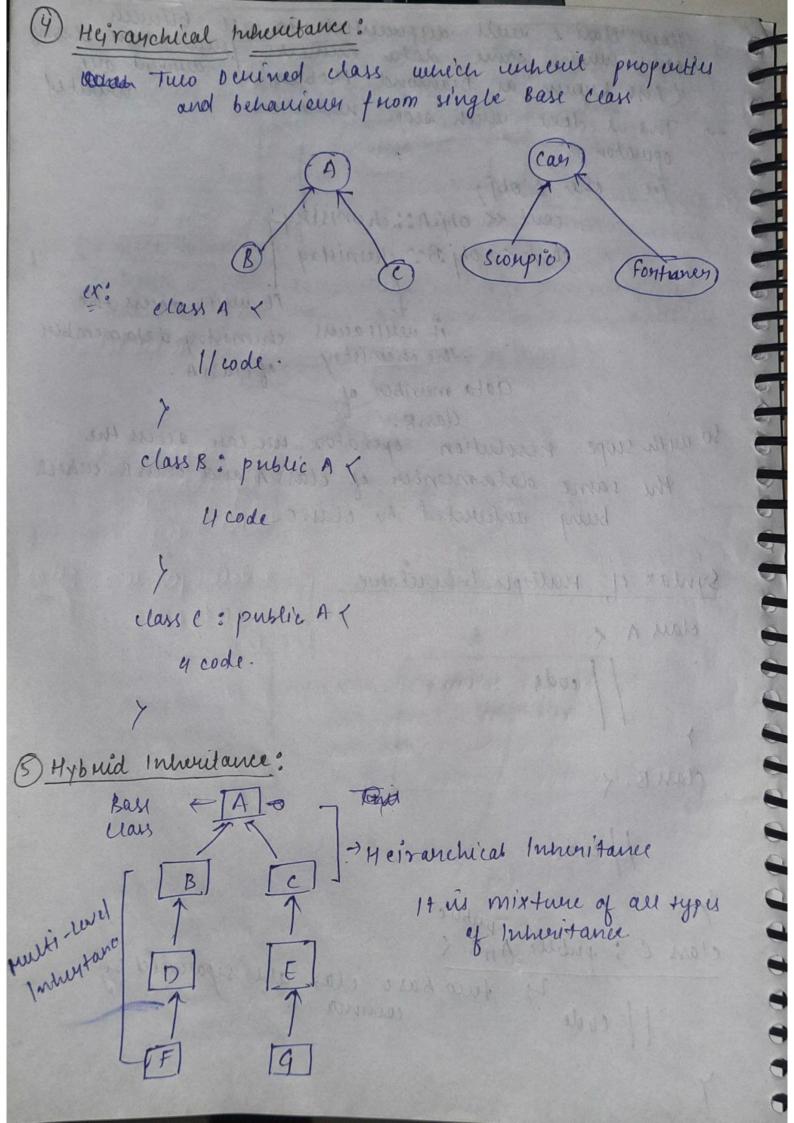


inside alles

* Type of Inhunitance Osingle @ multi-level (3) multiple (4) Hierarchial 5) Hybrid. Single-Level Inheritance: unen theène in one Base class and one derived class. i.e Parcent class / Base class become forced from these course with to be real Bare class / childclass / Derived class ex: can (Parent wass) syntax of single LI: chases com: constitues scongio (Derived class) class scorpio : public car; pricine class Bareclass 2) fulti- herel Insuritance: tunen are class without property from base class and then unneut class become base class for another class. Involuement of more than 2 classes. i.e Parient ex 3 Faut syntax of multi-hend child Inheritance. Grandson clau AZ Mang o claus: public A Prop Description Aphanso. elass C: public By



How class a well differentiate to call between numbers feren & base clarsey some when some data (Also known as Diamond Problem). I different are This is done with scope necolation inherited operator : dece cobj; cout & obj. A: .. chemistry cout << obj.B: chemistry It well access the chemistry data member it weillaccess the chemistry of class A. data member of class B. so with scope resolution operator we can access the the same data member of class A and class B. which being unhereted by class c. Syntax of Hulliple Inheritance class A 1 // code class B of // code public public 2) feuro sase class are separated sy comma. class C: publle AirB. <



* Polymoupherin: existing un many facione Poly - many mouph - fourm. wenen a single fune entity same name can penform differdifferent task i.e same -ent-forms. * Type of Polymorphism : (1) compile-Time Polymouphum 2) Run - Time Polymory wism 1) complile - Time Palymouphism: function operator Queeloading Diviloading. = function ovenloading: function naving the same. name but different parameter said to be function overloading. Note that func must have same unt func unt a) (netwentype. unt main () - 10 M code solling to the func (4). COURSE TO A MANY TO STREET func (4,10). und func (unt a, unt b) { func (4, "subrat") 11 code unt fune (rint a, string ster)? 4 code

operator occuloading. In that same of water il used to operate different multiple type of operation ex: '+' operator is used for addition were can use it for subtractor, thuis said to operation overloading. 2000 1013 suturnitype operator + () I confile - Time Poly nouphum In operators or veloding atb. - buinput value. here a us current compile Time lamou (1) .. at but equivalent to 9. add (6) - atb function Object input value coole: class operator & topurator in the public : survey the side and to be facultien over land with the the week house sawe void operator + (Operator 205/2) 1 unt value 1 = this - val; unt value 2 = obj 2. val; cout ex (value 2 - value 2) exercli-- (01 /h) 2 mg Ecgnin 1672mof o was to have I sweet too output unt main () { Operator obje, obje; 7+2 and force & way Obj1. val= +. Obj 2. valu=2. 06/1+06/2;