Scanned by CamScanner



cops CLove babbar Videos)

Video: 1

Class' -> Nothing but user-defined data-type."
Object -> instance of class.

> If a days is empty, then the size of the object of the clast is "1".

We can access class members using

Access modifiers:

-> Public

-> Provoute

-> Probected.

In default they one "Private".



| > Gretter and | Setter | functions | are w | seful |
|---------------|--------|-----------|---------|-------|
| for getting | and | setting | Privale | |
| members of | | | | |

-> Padding and greedy alignment. (Read once)

- Dymanic allocation.

Herro & b = new Herro;

-> constructor:

Is does not input parameter

Parameterised eonstructor:

to contains 1/2 payameters.

-> this keyword

Ly stones the orderest of the current object.



then the default constructor will be gone so you need to write default constructor with be constructor manually if you write parameterised constructor.

-> Copy (onstructor (Inbuilt)

hero s(60, 'A');

hero $\sigma(s)$ — sobject σ — scopies object is:

CHEST LANGE BUT AND THE PARTY OF THE PARTY O

shallow copy and we can do deep copy by custom copy constructor.

| Copy Assignment operator |
|--|
| |
| nerro s (60, 'c', roum) |
| nerso r (70, 1a', sam) |
| STATE OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPE |
| S=5; when become |
| then S. heath = 70 |
| s. level = à |
| s. name = sam. |
| |
| Destructos: |
| ~ Herro () S |
| conte destouctor called acende |
| B |
| |
| > for statical allocated -> destructor is |
| automatically ealled. |
| - a soutonictor should be |
| > for dymanical -> destructor should be manually called. |
| |
| non *b= new hero o); |
| delete b 11.5 this is manual |
| destructor. |
| |
| |



Pniti ali soution 1384 Constant key bookd Read not 80 mefrus total and the said Statis key word: -Static nember Is creates a data members that belongs to clast. to access this there is no need of object. static function: No need to ereale object. It can only accest static members. If cannot use other doctor members and throws an errors.

Video 2: Chove babbar) make aus antity Encaps watron: data members wrapping functions/methods The second of th Encapsulation. E Class to serve of something and a some Encapsulated class:-All data members are 'provate'. Enapsulation: - (Information hiding/data

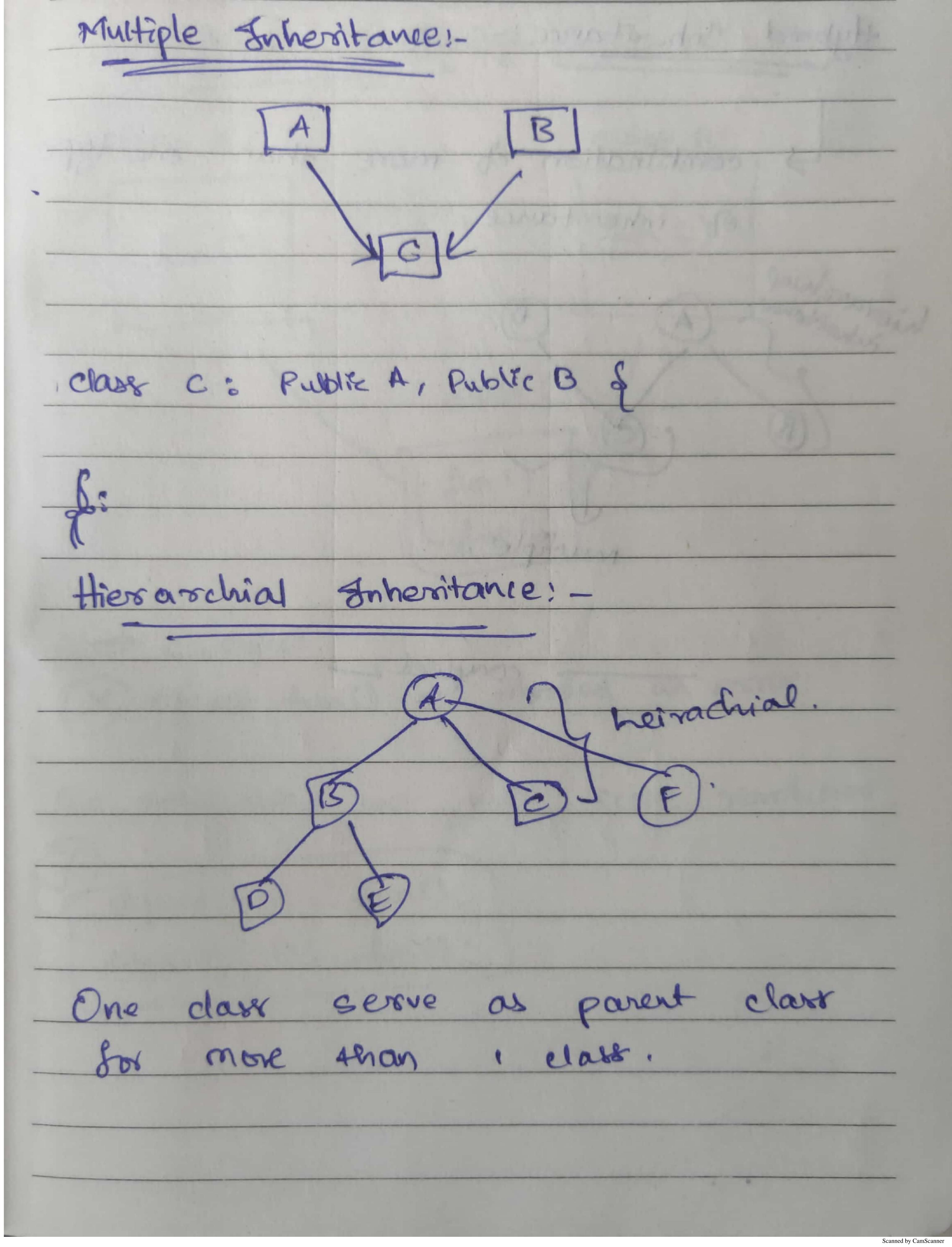


| Advantages of Encapsulation: |
|-------------------------------------|
| |
| -> Pata hide (Private data members) |
| G security Dees. |
| -> If we want we can make class |
| - "Read Only" (by not using |
| setter) |
| -> code Reusability. |
| -> Unit Testing. |
| |
| Inheritance: |
| Inheriting properties or methods |
| from others class. |
| Ex: Human -> is class |
| Les height |
| Ls neight |
| age. |
| male -> is a class Female -> also |
| day |
| Male and Female ame inherited froom |
| Hursian class. |
| |

THumani (Panent class Super Class) Male (child class sub-class) Protected -> access modifier accessible to accessible in ahild' dark or class only Jeroved dons. male: (access-modifiers) Human of

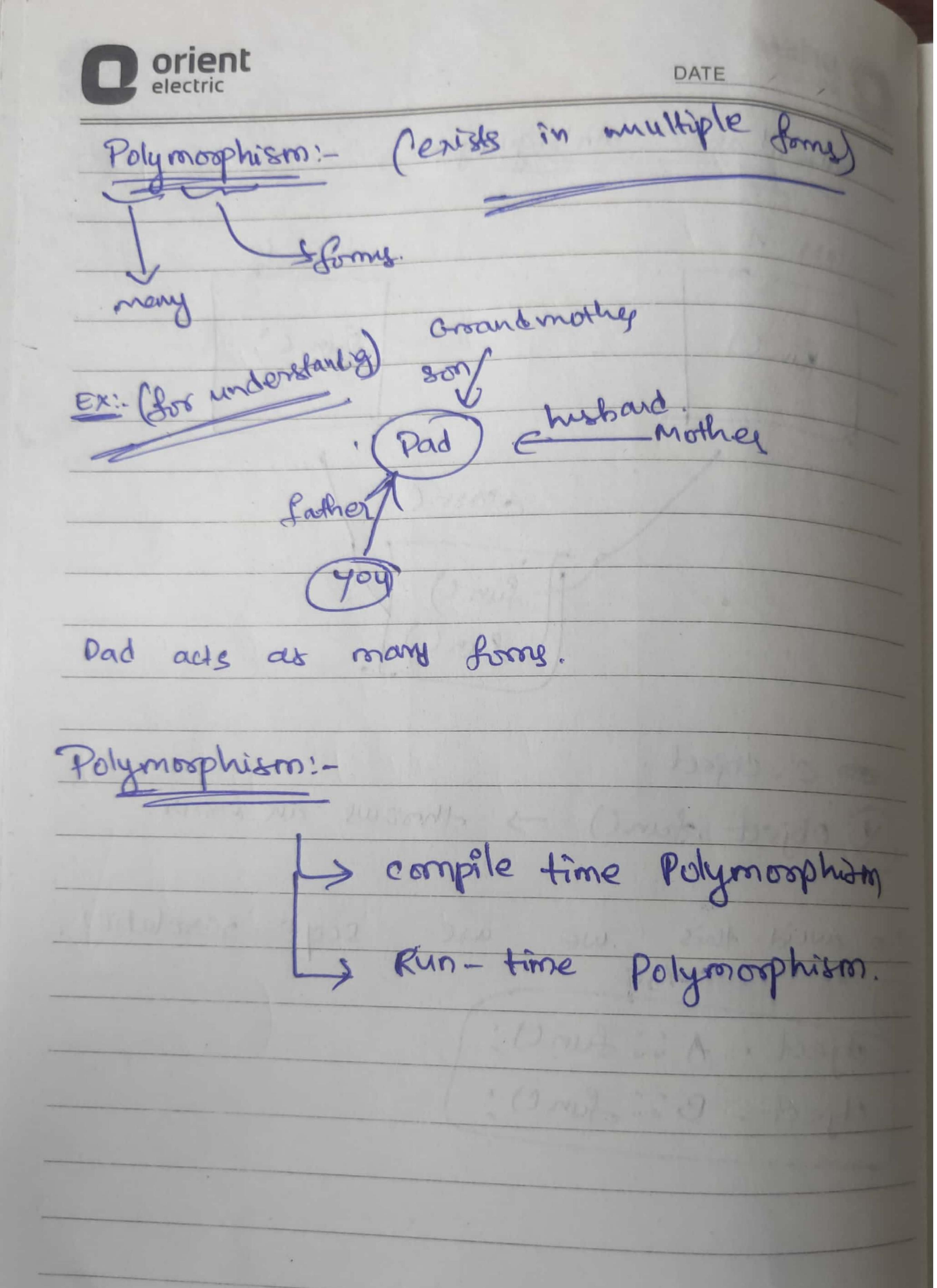
| | | HEREN AND MANAGEMENT | | |
|--------------------------------|--|----------------------|--|--|
| Panent | child | | | |
| Public | Public | Public | | |
| Public | Protected | Protected | | |
| Public . | Private | Private. | | |
| Protected | Public | Protected | | |
| Protected | Problected | Protected. | | |
| Protected | Private | Privale | | |
| Private | Public | | | |
| Private | Protected | Not Accessible | | |
| Private. | Private | | | |
| A Administration of the second | Helphan I. | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

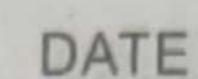
of Inheritance!--> Single Fulrenitance: Bingle Inheritance. Inheritance!--> Multilevel multi-houll inherited Anhante.



Hybrid Inheritance: combination of more than one type of inheritance. Wierranderice: (A) mutiple. completed

Inheritance Ambiguity: fun () to conject. throows an error. scope resolution. Po avoid Atris we object. A :: fun (); Object. Bisfunc):







time Polymosphism! function overloading I Operator Oversloading Andrew Children H. Jan Marie by Function Overspading:by the changing the arguments of functions. Changing setum type is not function over 10 ading. BALLER BUSINES BUSINES E void function, chance) func ()

electric you can neep any Operativé Overloading!-Syntax: (With Operator (19) return-type reull. cout a + 1 Park by oknown 149 3 4 3 MA 13 NIF 535 EF 3 F EF 3 un-type Polymosphism (Dynamic polymosphism Overriding method Lependent



Method Overviding Parent Clark Public! Speak () coular speaking usendl; Class Big Public A
Public -> child dass void Speak () cout ec "banking" - cendel: Rules! -> method of poont clours and child class must have some neure. > method of porent clair and child class must have some porameter. -> It is possible through inheritance

Dog d: a-speak C); 8/P = barking. overriggeng. method

Abstraction: (" Implementation This can be achieved by using access modifiers Porvate Protected