Types! . single inheridance es one Parent & one close (child) -> Multilent inheriteure -> Hierarchical Inheritaina (onno) (Shot) (shot) Hybrid : wheritane ! combination of 200 more inha F-TLX OW Egy Sho (1) Using Multiple inhutures -> 2 parent & 1 child clocks into Focus Eig' - Count SUPPLIED (Shop) Rule! In Jave only one class can be

In Jave only one class can be extended.

Class court be extended.

-> Dimaoud Problem

is Hore same clark could be extends

2 classes.

& what is solution to inherit 2 parent claim for one child class?

sur. We use conceret called Interfale

-> In intertale it is possible to give 2 parent clairs to one child class

to get class Andortes we use "implements

from Parent

class shot implement owen, Workal Supplied 2

Rules,-

3) in interface we should intlized all vadiables

int painum = 10

2) Void methods should not be declared. we could write body for motherd. -> Itis oudided in chi'd class.

```
Inner class;
```

-> It means aclass in some offer class

Egi class chaisholt

clas Thikkal

string evaliki = " me",

How to access & juttibe.

Chaishol breanch : new chaishofcs.

chaishol. 7 mikka the = Browth 7 Jak.

Chaishof, Thikka th = branch!, now

## Java Packager

-> generally in Development we can't write

Single rode in scene file.

-> so, of the Packeyes are used to get

the code from other file.

That extended in fort follows, owner;

cole account her clars shot extends owner?

Strive breench preum = " shell

main (12

Chaishof branch! = new chaishof ();

Sys. ord. Private ( breach 1, owner Name) ? foldux -> owor. java This indicas Packacy Folders; stut stress Pablic class owner & ade exported public string ownercome = a viguest"; and the state of t Modifiers. -> Access modeliers Won- Access Modifiers. 5 sucition modificous 5 Ly Public -> It can be accessed Any where -> private -> only occess in that creeks Public -> subclass, same Class, some Packages, diff Parkages & det subclass of other (last rakeye) Protected -> same class, same parkage, diff Park (sub class ) de fault -> some clay, same Parkage. privade -> only Scene class.

```
Non-Access Modifiers
                   -> volatite
    e> stadic
     -> Final
     -> abstract
      -> synchronized
S daie L
      La studic member 13 clays to class not obj
        can be directly accessed no need of object
         will be judlized only once
           Clays shot 2
              static ; ut ent = 0;
         maine) !
  classister a = new shopes;
             shot b = new shor();
 a, cut + +;
   6, cw ++ ;
In wit (a. end, b. end)
```

=> 0/1 => 2 2

because,

if we their studie dem other vedicible is storedin class not in object.

should be to be sy show a cul it; is shorter shor = find = by L'inde bleising.

-> shop = 12 coul = 12 = coul = stor div a = 6 3 6261 - . Kali medi. at town a bound .

Parent pc = new child();

-> it says dend valiable one Prival of posicul & medhode ou Printe & from child.

Lest -> variably, staic medhods Righ -s medlod (In care Both have same methods)

as static functions count be overrided

Finalf

L's Grad maker variable constant

-> It should be indhized dercelty or using constructor.

abstract l

wis abstruct is Placed before any class we can't crade objects.

-> It should be exted by other classes

-> It can conduin both abstract method or nermod methods ... with bedy no hody! -> The abstract methods should be

overide in child class.

Synchronide di

block of our or

It ensures one thread access to

recents rale condition.

voilatei indiates that the threats Should get the value from the mennony. not from colche.

> fransicut! It prevents variable from serialize -> It will not stork the value in the file while storing an object into -> unes in sensitive dada.

Nativeli - sullosi we write a method in other long clett then we use that meshod in class then well will keep nadive they word.

-> 71 indicals it is other lange medhod.

Features of oof

1) en capsulation;

of some variable & methods (Private)

do achive et.

## 2) A bstruction 1

Hider implemention details & c x loses
only essential features of Object.

This can be achive using abstract

Classes & interfaces.

3) Polymorphism

2 types ->
i) complile time polymorghism
Li prethod overloding.

2) Rentime Poly morshim! L's medlod over ridding,

with the second of the second of the second