MAN A

class => It is used to create your own bada type.

to crate class the first post character should be captial. (1) and Holo fine water

r bridge to The art budge of class Shop 2

String branch Name; int cupsold;

How to access in Main ():

shop branch 1 = new shop();

-> First DelaTyle, next variable, new key Word to Creale object in Java, next class have of same DT.

How to access !-

Sys.out. Printle (branch! branch Name);

I this will give stored in object. class Which That was the

so finally,

Shot => class

branch 1 => object, we can crowde multiple objects by using single class.

```
methods in class / Functions,
    clair chaishof 2
 string name;
         int cuts;
         Public void class Fun ( ) 1
             S.y.out. Mainel a cleur fund),
```

(onstructor).

Agric Will Surpe

choils creek function Same as clars rayre.

+> If how no Return type.

Class chaishoft int cuts; string name) Public Chaishof (string by, int name = bn; cours = cs; Charles of the State of the Sta

Ahis L

it is used to access the variables in class

In herdance!

17/6/15

Lo It is used for Reusablity of code.

Det - It allows a child class to inherit Proportice

E behaviours from posent class or other

Clark

Eg:- clar owner 2

Parent & String owner Name = "vignesti";

of class int age = v21;

int num = 123;

3

child < class shop extends owner &

it is the key word to use

sinherestance concert.

Hirerarchical Inhoritence;

Lo more than con subclass inherits the parent class it is called " ".

childs (childs).... (childs)

May May

In a class the moshode have same name but the method parameters and difford

Eg 1 Clock short 2

Noid few () / s.ys.ocd. ? (" mesterd 1"). Void feer (int a) { system. Print la (Meshodz"

Q void four (string str) 2 print (" medhed 3");

-> Here with sceme Box mesters but different DT will consider as different four.

void fun (int a / String b) } different void fun' (string a, int b)

- Jan I B -> Nord Paramets -> Tyle of Params -> order of Parameters) are consider

neshods

- -> Suffose in parent clock & child clock have

 Same methods with some potentiers then

 prothed in child clock will get called when

 we use that from method.
 - -> Here the child class is overridding our
 farent class medaod.
- -> If we use overriding in child the we should mention @.override. It is not manderdom but it is good way of writting & easy to centerstand to others.

Multilevel inheritents.

Clark owner (Clark sup)

shop class extends owner class, so the shop class owner class owner class by accessed by room class fines is rached muldilived inhibitance.

Types 1 -> single inheridance es one farent & one class (child) -> my Hilerd in her teunde Hierarchical Inhelidana (onus) (Mol 2) (Sho!) -> Hymid : wheritance ! combination of 200 mon oww) (8 ho (1) of or the contract of I would be the > multiple inhuture Brizu -> 2 parent & , child class interfocus Eg'- Curu SUPPLIA (Sup P) Rules In Jave only one class can extend. Multiple Clocker for Single class court be extended.

-> Dimaoud Problem

is HOL same class could be extends

The 1800 to varify

2 classes.

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

sur use conceret called Interfale

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

Interface de ve use implements to get class proportions

from Parent.

Egir Class shot implemente owen, Workall Supplied 2 to the part of the

Berling W. D.

in interface we should intlized all variable

some winen = w fall of men of num of

2) Void meshods should not be declared. ve cound write body for motherd. (1) July 10 15 -> This oudided in child class.

Inner class; -> 21 means aclass in some offer class Egi clay chaishold class Thikkak string evaliki = " meg, How to access & intlibe Chaishor bronch = nu chaishora. chaisher. 7 hickon the = Brouth. 7dkg Chaishop. Thikka th = branch!, now Thi Kkal Java Packager -> generally in Development me can't write Slingle rode in scene file. -> so, of the Packages are used to get the code from other file. import folder A. Owner; code: accord how clars shot extends owner? Strivy brunch Name = " shell" handle of the contract of the contract of mainer 2 Chaishof branch! = new

Sys. oud. Prindle (breach 1, owner Name) ? foldus -> ower. java This indi & Package Folders; that their Palstic class owner &

palstic string ownersome = a vignest"; May we are all the same and Modilions: -> Access modifiers -> Non- Access Modifiers. Gadan Bolgin .) Acces modifions 2 is public -> It can be accessed Any where L> protected -> 111 L> default Lis poivale -> only occess in that crass Public -> subclass, same Class, some Packages, diff Parkeys & Let subclass , other class (diff rakey) Protected -> Same class, same package, diff Park (sub class) de fault -> some class, seum Parlage. only Scene class. In rede ->

```
Non-Access Modifices
                                                                                                                     -> voladite
                                                                                                                     - > 1xansiail
                                   er steutic
                                        -> tinon
                                                                                                                  -> hadive
                                            -> abstract
                                                -> synchronized
                           Staic L
                                                La stretic member 13 elongs so class not obj
                                                              can be directly accessed no need of object
                                                 -> will be judliged only once
                                                                                        " TO FEBRUARY WAS SELVER
                                                 Eq: - Class shot ?
             and holy to writing to
                                                                                         steetic ; ut (ut =0;
                                                                       maine) !
                          clashof a = new shof ();
                                                                  shot b = new slip (1);
             List of the content o
                    Tologo of the bottom of it
mut (a. cut, b. cut)
                                                       2>0/12> 2
                                                                                                and countries in the second
                                          be court ,
                                                     if we theer studie dem that redicable
```

is storedin class not in object.

shor = Lint = 09.1

a= Ly A Hands Proposition of the single -> shop = 12 (wt = 12 x count is stored in a = 23as Person & with not discuss to Parent pe = new child(); -> it says dent valiable are Printed of pourent & methods one Printe à from child. Left -> variably, staic meshods Righ -> medlod (In cont Both have same methods) es static functions count be overrided the triple of the present of the same Final L. Lis Grad makes variable constant The should be indhized directly or using constructor. the man start is the start of t . is abstruct is placed before any abstracti class we can't crade objects. -> It should be exted by other

classes.

> It can condein both abstruct method or normal methods or with body

The abstract methods should be overside in child class.

Synchronizedh

block rode or

It ensures one thread access! to prevents rale condition.

voilatei

It indiates that the threats Should get the value from the menong. not from catche.

It Prevents væriable from seriali fransicut L -> It will not store the value in the tile while storing an object into -> une in sensitive dada.

rativel. - sulloss we write a method in osher long clets then we use that method in class then well will treet nowlive they word.

1)]] indicals it is other lange medled

Features of Oof > 1) en capsulation;

-> Here we will define a closs with variable & methods & Keep resolviet of some varrable & meshods (Private) it is alled encapsulation.

-> tes le we use gesters & se deters to achive it.

2) A bstruction

Hider implemention details & cx Poses only essential features of Object.

-> This can be achive using abstract classes à interfaces.

3) Polymor Phism!

2 tyles ->

i) complile time poly morahism Ls prethod overloding.

23 Rontine Poly morshim L) method over ridding,