· Static Kw can be used with var, fun, class, block, class & import

Static Var -> All skj will shore same copy of the static var

Static fun > St. fun can be accerted w/o creating an obj. It can be called directly using clan name

Static bleck -> St. bleck is similar to a court.

- · It runs auto when a class is first used.
  · It can be used to initialize the van.
- a) why is st. black used, if it is similar to count's
- A) when St. Kw is used, then obj is not created.

  So const' will not be called: .. St. black is uned.

Rule w/ st. fun · St. fun can call only other st. van & fum. · Non st. fun can accen all 11 van & fun. eg var x,y v statie 11 a, b r mormal. fun set is normal - it can accers all var a,6, x, y 11 get 11 Statie - 11 " only statie van x &y. 1. get can access only statue van  $\chi, \gamma \leftarrow$  get()Set() (Set() (Set() 2. Set can access St. & non St. 051 052 052. x, y (Static) Mall obj have same copy of a, b (Normal). a diff

```
protected static int l, u, h; 1/5+. var.
      l=0; 20=0; h=0; // Statu black.
pulolie statie veid set (it 1, it y, it 3) }
      1= x; w=y; h=3; //St. fun
 public static vail get () {
      Sahln(d); Sahln(w); Sahln(h); 1/5+. fem
                               J Augustin
 { PSUM (-) { () -- 1 -- 1 -- 1
//No need to create obj of box.
11 Static fun can be called using class name
box. set (1,2,3))
 box·get ())
```

## Nested Clanes

- · A class created / defined inside another class is called a nested class.
- · Inner class can directly access var of outerclass but outer class can't "" inner class.
- · Outerlan need to weste obj of innerclan to access its variables

Outerclass {

PV outerfun() {

(PV > bublic vaid) // define

3

Class innerclass {

PV innerfun() {

// define

3 outerfun(); > innerclass con directly call outerfun.

innerdan obj = new innerdan ();
obj. innerfun (); -> outer class needs to
create obj of innerdan
to call innerfun.

Can't Call innerfun duratty.

Han box.

## Creating obj of innerclars in demo class

· Obj of a simple class is created inside main ()
eg box obj = new box(1),

· Homener, obj of an innerclan can't be created directly

. Ist we need to create obj ay outer class. Then we can create obj ay innerclass using outer class.

eg (dan outerdan {

pv outerfun() 2

sophn ("outerfun");

public

void

(dan innerden {

pv innerfun() if

sophn ("innerfun");

3

3

(1) to create obj of innerclars, I't we need to create obj

of outer class:

(recte outer class obj! = new outer class ();

outer oss;

create outerclass obj! = robj! new innerclass();

create outerclass innerclass obj! = robj! new innerclass();

inner obj class name inner outer innerclass.

Obj1 > outer obj obj2 -) miner " 11 call fun using inner obj 06j2. inner fun ()') 3 Il demo ends. Static Class · An innerdans can be declared as static · The purpose of static innerclars is that its obj can be created who creating obj ay outerclass. Note: outer class can't be st. Only inner class can be Static outer class { pv outerfun()? 11 define Clan static innerclan? PV innerfun () ? 11 défine

CD of PSVM (---) } -> Class demot Pub St. vaid mai (...) 11 No need to create dis ay outerdan. 11 Obj of inner clan can be created directly outerclass innerclass obj = new outerclass innerclass () Clan name Class name & innerdan Mere innerclars is statue, so its obj can be

created directly w/o creating obj of outerclass.

The man of which is the same with Allins for the with

injustice out = the site many strike

## Import & Static Import (Unit-2)

· We can import any class of use it.

eg joi import jaura. lang. System;

CD { PS v m () }

System. out. pithn();

use System class after importing

3

Note: - System class is auto imported, but it can be manually imported too.

What does System. out. printly () mean

Class System {

Static Brint Stream out = new Print Stream ();

11 Out is an obj inside System.

11 out is an obj inside System, but out is an 11 out is not an obj of System, but out is an obj of Print Stream Class.

Obj of Print Stream Class.

Out is static, so, it can be accured by using Class name System. out.

athat is static import · Another way to implement a class through static import How to statically import 1) urso une statie KW import statie java-lang. System. A; 2) when statually importing, use \* after class name who means all members of a class are imported of a particular class. What happens when u statually import a clars? Benefit? · We can accers members w/o using class name eg System.out-printlin(); // Normal import out. println (); // with static impart, class name is not needed. · So, it reduces effort of typing class name

everytime

· Syntax: & import (class)

eg import jawa lang. Systen;

· clars name must be used System.out. frinlen();

import Static (class>. \* empart of state java. lang. System. A. \* means all members of class.

members can be accessed 410 class name out printly ();

Note :

- · St. import doent make a class static or it doen't make the menbers static.
  - · The class members v already static.
    - . It simply allows to use the members directly w/o using class hame.