Base Class Ptr & Bare Class reference (Unit - 4) 6 cp/r -> bare clan · Narmally , ptr > pointer pt/ref. Var > Variable ref > reference bcb > base class btr. dco > der clam obj . Normally, fits & var shud be of same types Chan C = (a);eg int a = 30; int * p; int *p; b=66; b = sa X Erron: Not allowed. · Similar, rule for references. LAIDE Chan (= 6 a); eg int a=10; int gruf = C; ind gref = a;

X Net allowed.

(1

- · However, when it comes to inh., a base but can beint to a der clay 06;
- · Nete that base class pt of der class obj · of digerent types, still bcp can peint to a dco-
- · But, opposite is not true i e a de der class pt <u>can't pt</u> to a ban class obj
- . Same is applicable to bare clan ref. as well.

Egt beb fainting to bare claim obj

bare obj-b; // create b obj

bare * Bbpt ; // 11 11 bpt

bpt = 4 obj-b; // bpt beinting to

b obj.

Eg-2 der clan þr þeinting to der clan obj.

d2 obj-d2;

d2 * d2 þr;

d2 þr = 4 obj-d2; //d2 þr þeint?

to d2 obj.

Eg-3 bcb feint? to alco

dl obj-dl;

bare * bb*;

bb* feint?

bb* feint?

hb* feint?

Allowed

(2)

Eg-4 d2 * d2 ptr; bare obj-b; // d2bt = 406j-6; der pt pernting to a base clan obj * This is not allowed. * Similarly a base class ref can point to a der class obj. 4-5 d2 obj-d2; base I rej = obj-dr; //base rej to Summary base pt/ref; clan obj. San also pt- to its der clan obj. > Can bt. to its own class ob; der Class CAN'T ft. to its bare. Clan obj.

3

with the same of t

C. H. C. MARY

a) why does a bcp/r can point to its der Clars obj but a der class pt can't point to its bare clan obj.? A fits must know the size of black of m/m it is pointing to d2 06; · In this eg: - obj og de is made of three fants 1) bare part: der inherited from bare. 2) dl ": 3) d? " : contains complete de

· When a sport is fainting to this obj, then it is fainting to only the base pto part.

Because this is how for behaves. bft knows only this much black of m/m.

- when a dept is pointing to this obj from it is pointing to the Complete de part. because a dept knows the complete black of m/m.
- a de obj.

Note de ptr can also point to de obj.

New lets take another eg.

bbt) bane, bant!
obj og bane.

· Suppose there is an obj of bare. It has only bare part, it deem't contain d1 & d2 parts.

· So only a bare clan for can fait to a bare bare clan obj.

A der clan for Can't for to a bare clan obj. Its met clan obj. I bare clan obj. Its met have amy der class parts.