Function Overriding (unit-4)

You can the same fun name

0/L → overloading

0/R → overloading

param → parameter

· Same fun name can be used in 3 digs ways in inh — 1) inherited fun 2) 0 | Loaded fun 3) 0 | Ridden fun.

1- Inherited Fun

B) inherited fun()

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- · Suppose a fun named inherited-fun() is created in base class.
- · This fun will not be created prediction
- · This fun will be inherited by dr class of obj of dr class can call this fun.
- · There is only one capy fun with name inherited fun() in de clan-So de obj can directly call thin fun.

M'heate obj g dd

d2 obj-d2;

M'all the fun
obj-d2. inheited-fun();

2- Fun overloading or overloaded fun

B) overloaded-fun (int x) d!) overloaded-fum (it x, int y) de overloaded-fun(it x, int y, it 3) overloaded-fun (int 2) } Hidden overloaded-fun (int 4, it y)

· Any inherited fun with same name will be hidden in derived clan

- · Eg:- Suppose Bare contains a fun named overloaded - fun () with 1 param.
- · If another overloaded fun() is created / defined in al with 2 faram, then Overloaded-fun () in bare will be inherited by dI but it will be hidden.
- · Similarly 'y such aded fun() is created in . d2 with 3 param, then out of wh. 2 fun will be inherited of they will be hidden de will contain 3 fun

· Hidden means that they & not visible to ship directly & Class home should be shelified to call those fun.

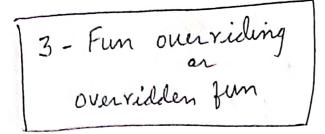
· Eg:-//Create obj g d2 d2 obj-d2;

11 Obj-d2. overloaded - fun (1); 7/1 friere 11 Obj-d2. overloaded - fun (1,2); I hidden 11 Obj-d2. overloaded - fun (1,2,3); 11 This will Obj-d2. overload - fun (1,2,3); 11 This will run.

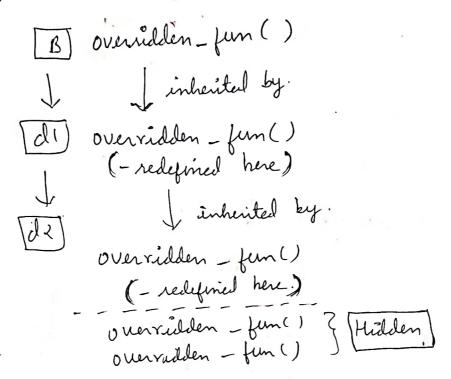
obj-d? bare: overbadel-fun (1); obj-d? d1: overbadel-fun (1,2);

hilden fun & accented by using character. Class name & Scope resolution operator.

Even though hidden fun have diff
No. as banam, still class name needs
to be specified to tall there fun.



· Third may to me fun is through fun overviding.



- · fun overriding means creating same fun in derived class with same no- of param
- · Suppose there is a fun named overridden-fun() in base class.
- . This fun is redefined in d1 & d2.
- · overridden-fum is also inherited by de class
- · So de mill have 3 overridden-fun() with same no, of baram.

· when obj of de calls overridden-fun then its own fun is called. Overridden-fun() of B & d1 & hidden

· So dis overridden-fun() hides d1 & base fun

· To access the hidden fun, clars name & scape resolution opr needs to be used.

Eg d2 obj-d?; obj-d2. overridden-fun(); d2; fun called

obj-d?. bare: overridden-fum();
obj-d?. di: overridden-fum();
hidden fum r Called.

Fun ofk involves 2 conditions

- Inh must be involved

B, d1, d2 all must use same

fun name

- fun faram shud be same in all fun:

summary: -. If you create a fun with same name in derived class, then base class fun will be hidden in derived class (Applies to both, o/L and fun O/R is done) · To access hidden fun, une class name b sec: overridden Overloaded Inherited fun. fun fun inh ment be · Can be done · inh must be involved invalued with, w/o inh . No of baram shud be same. , No of banam. shud be diff . o/k fun alm . 0/L fun hidden hidden in deviced clan . There & mul · There is a fun with single fun. Same name 1.0/L fun r t inherited by derived class Whether fun r overloaded or overridden, they will be hidden in derived class.