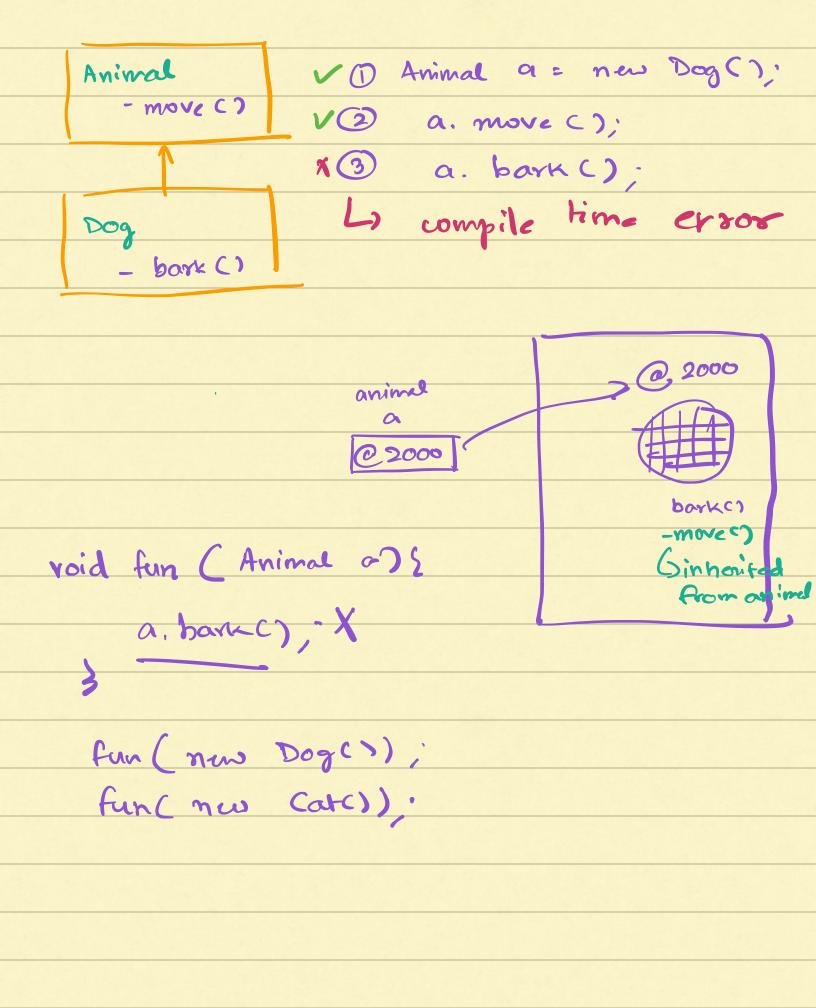


user password, login() Mentor Student Instructor Class User [ string Wenname; String pass; boolean lopin () ? Should be common for all Sorts of user (TA, Mento),

7 - Student) class Student extends User & String asceptione; Shirs pass. are not explicitly boolean lopin () 2 visible but innerted from parant string batch , floar psp , void Change Batch () 9

Inheritance helps to relate physically or logically related entities. Dog Robot
- walk() - walk() (nalke) Parent Pog Robot.

Polymorphism morph -> forms many forms TA is an User Mentor is an User student is an user is many torms of use print User Names ( List <? 7 users) Dataty pe? User n = new Student () User ul = new Mentor (); Parent class Reference variable can point/hold child object. (not vice vasa) Student S = new User () : X

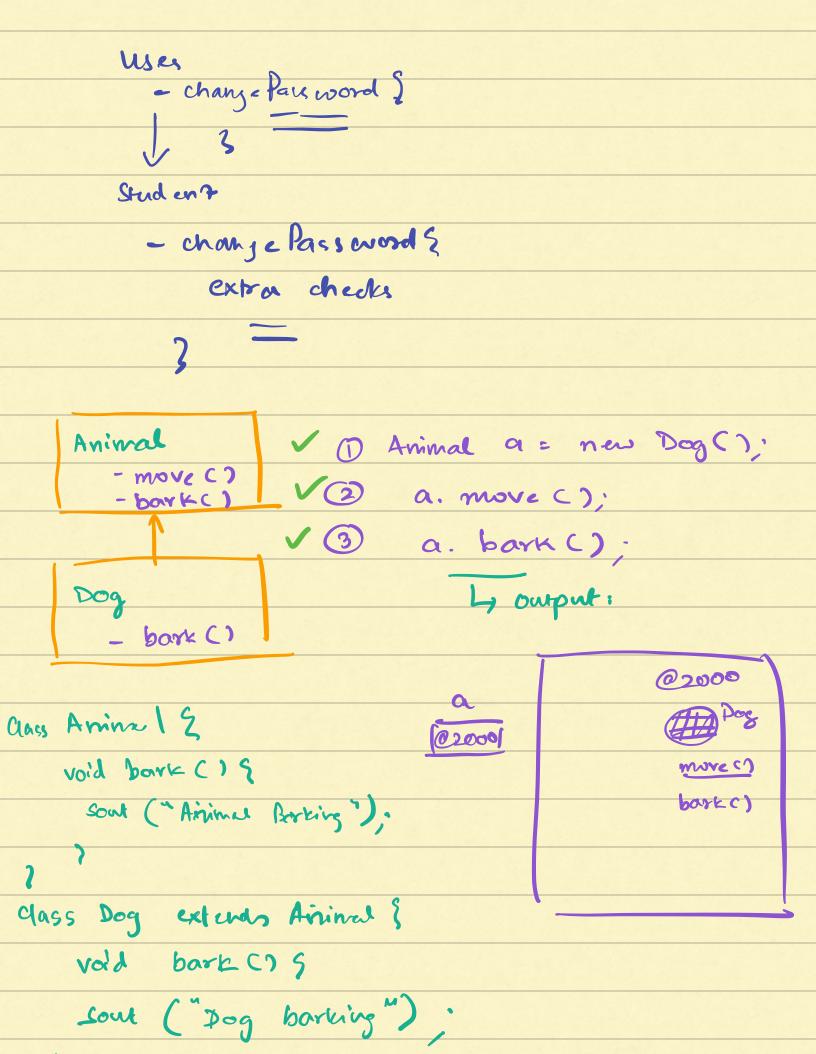


Metrod Overloading (compile time polymorphism)
poly morphism)
Using the same method with different
arguments — method signature must be different.
Method Signature:
return type method Norme (Datatype 1, Datatype 2)
de sid
doornit order matters variable names also
matter. in signature doen't matter.
O void print (Ctring botch, String name).
1 void print (int psp).  1 void print (string botten, int psp).  4 void print (int psp, string botten):
1 void print (String botten, Int pep).
(4) vaid print (int psp Smine batch)
(\$) void print (String home, int age) X
(2) String print (float), } can't have  (2) String print (float), different
(2) String print (float); different
return type

if signature is print (0.5) same. print (0.3) gring print (long). print ("Akarh", E);

print (5, "Akarm);

Metrod Overriding: (Runtime Polymorphism)
class Avinal E
void more C) {
— walker:
3
3
class Dog extends Arrival &
void more () > not expricitly
Visible.
void bark() §
void more (int 2)5
method
- Overloading
•
void move () {
gym



Compiler time - Arinal Bark check Run time - Dog Bork run. new Animal(). Ainimal a = a. bork(). Animal Dog d: new Dog(); - move c) d. attack (); - bork() Animal a = new Doye). Dog - bork ()
- attack () Void command ToAttak (Dog d) g 2