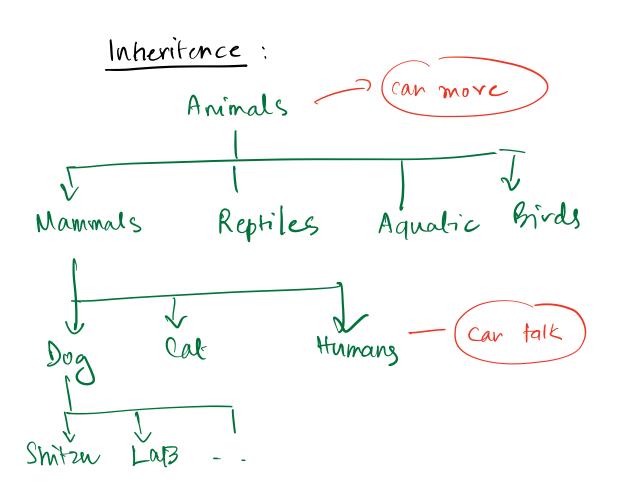
## GOOD MORNING! Start at 7:08



child class in herits the altributer of the parent class not vice versa.

To shave attributes and behaviours with

logically physically related ducses. User - Username
1 - login
1 - l TAS Students Admin Mentors barches, clarses - end() - end() \* Private members can be inherited but can't be used. Constructor Chaining Huis () Super()

Polymorphism )
form many user -> Admin ADMIN IS A USER STUDENT IS A USER TA IS A USER User class User u= new User(). Student S = new Student(). Admir Student TA print User Nouve (List 4? > vsers)
user function ( student s, admin a, memor m) } list < ? > user = new List (). user. append (s); user. append (a);
user. append (m);

reference vice versa doen't variable WOYK Arrimal move() inhents @1022 nour KCI) 1) Animal a = new Dog (); 2 a. bark(); X 3 a. move(); a (@1027 compile time erros Parent class reference can hold child dass Object. But Pavent class reference can't caul & drild dass after & methods

User n = new Stendent ();

function (Student S) {
S.C. ?
S.c. ?
S.c. ?

S.c. ?

Sint Useram (S);

Compile Time Polymorphism - Inheritance Run fime Polymorphism. Method Overloading L) Method Overriding

Method Overloading:

Student (String name, int age) Student (String name, int age) Student (int id, String name, int age)

do something (int)
do something (int, int)

void for (int) V void fun (string) void fun (string int) V void for (int, Smig) void fun (int) void Eun (float) Variable nome soid for (Sminy (8) X doen't matter roid fun (String X) X for ( "Akann") fun (" sam") voil fun (int) in Jova int fun (int) Error int y = (fun ( 57) fun (6)

return type func-name (powams). In java return type doen't matter Only this part is checked. for method overloading Break (9:20) Method Overbiding void do Something (int). extends A & Lompile do Something (int). [X lompile class B do Somethry (int) / time int

roid do Something (int);

B b = new B()

b. to Somethind();