Today Agenda 0-

- 1) Interfaces
- 2) Abstract
- 3) Static

Interfaces oclass: - bleehvent of our entity / édea Ly Attreibules & behaviours

Vareible

Methods

H along with den of A concept which is not exactly a real entity

H Not really have any attreibrete l'defn' of method. but that concept is categorized by the type of behaviour supports. Loucept: Any one who can eat, walks
Reed is an animal for me. Interface o Bluebuint of a Behoviour Defenies a set of behaviour that
must be implemented by a
class to considered belonging to
a category. interface Animal & shecker Void eat ();

Void welle ();

Void Sun ();

declearation class coet implements shrimal of void eat () of

l sout ("cat is eating") void walk () of Sout (11 wolking 11) void rum () {.

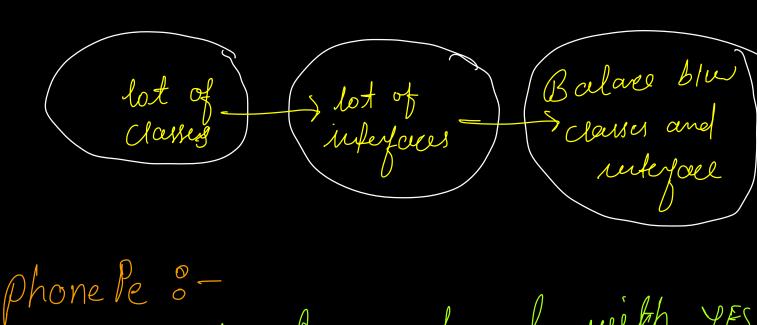
& Sout ("cat is hunning") void meour () {
Sout (" meour") Class Dog mystements Animal E. Void eat () { yord walk() { A { Class _ imp Compile time

Stack o- LIFO by push () pop () peak () is Empty () Cleave: inferface steek ? r void (push) (int x); int [00] (); of mit peek (); Lbool is Empty (); Class Averay stack implements stacks int top; int () are: mt max size, void presh (int val) &

ay (top) = val 3 top ++ Void pop() { } int peek () { Joel is Empty () Class IL Steck implements stack of 11 4 Methods

Implement Averagsfack & It stack classes which implements Stack integers. Polymorphism o class -> (Dons) Stack is a Cl stack Ayray stack Arimalat=new Dog()) (Stack SI = new Array Stack) Stack S2 = new ([stack The privai put -> Onejone

frogram to interface not Implemention



phone le ophone le partnered with YES

Bank RBI banned YES Bank

for all Orline fransaction

Code l'e Ladaep, phonéte

was back.

Changed to

YES bank API

TCic Sout APIS. Interfaces: Class Phoneles & YESBank (api) icici bank add to wallet 1) { api chealchalance () 4 (-) { 2 api Send money?) api register ()

Preoviden to icici

Class Icici Bank API & Void get Balance () { Sold transfer () L Void start Trans () {

Vars icici baruk APT been - implement bank Berry API Cheek Balance Cheark Balamet) fransfer Money () transfer Money () register Account() Degister Account () Common ground Clars YES B YES Bank API Icici bande) clas phonese { Bank API api = new icicibank API api. check Bul new YES bank Arts) api, frans

Life statement o-

Never get oftached to a person, y they leave, you'll be Messed up.

System should be loosely coupled avoid tight Coupling

2 dasses

heve dévert dependency on each other.

<< list >> Assury linked Dynamic Queue list Array list < Integers > ls = new Array list () : New DA 9 Marses in Javy Ad Loveept

Abetract classes o Interface L) Entity (Beh behaviour/ But I don't have Loo'! clarity on how those behaviour (0111 work abstract Animal { (string name We connot Lint age Create Object of Abstract abstract void walk (); classes. absticut void eat (); void print Name () {

Any child class of animal neil be forced to implement these abstract method.

class (Tiger) extends Animal S Tigent =

Void walk () & t. name

t. age

J. out (!! Tiger walking")

Void eat () \$ Sout [Tiger eating") Class
Extended by
Uass mplemented by (lass)

menjore Extend intentare abstract Animal Sound

Sound

Sound abstract class extend does DOG Sound

An abstract class with no interfaces

Only abstract method only method defin

celostract Animal -> make sound abstra (Dog) -> makesoema Lab One class Oue class can implement interfaces

A do something Extend Exteno do som. Hing do something Textero Externa) jamon a Duoblem

Static o client & modifier Stand for code execution PSVM (publie) (statei) (voied (main) () { Return type you can access static method /variable without an object of the Corresponding Class 7 sketer Var Choess -> Steetic method Cleus