- 1) Interforces 2) Abstract Clauses 3) Static Reyword

# Interfaces.

When we talk about dakes - affributes, behaviours. What is a down -> bluepeint

Concept -> does net have attributes -> No definition inside the methods.

Tomept is categorized by the type of behaviour it supports

Animel
Reptile
Mammale Aquatic

e.g. anyone who can walk, eat and run is an arrimal. every animal will have it's own way of walking, running, eating.

eats run, walk.

Animal. Viny Interfaces.

- If classes are blue prints of entities.

- Interfaces are blueprints of behaviours

```
interface Animal E
                   function declarations.
  void eat();
                                  *Interfaces have method
  void walk();
                                    declaration and not definition
  void run();
                                  * there are in attributes in
class cat implements Animal ?
      Sophy (" (at is eating ");
                    void walk(){
        Sophil" cat is walking");
                                        roid mean () {
      roid run() {
         Soph ( (cat is huminy ");
                                         Soplin ("meow") 3;
       Dog implements Animal É
 class
      void et 1) & soph (8 Dog is eating 1);
       void run() { Soph ("Doz is mmning");
       void work () { Sophi (" Dog vis marking");
        void larkel) { Soph ("Bark");}
```

* You can't skip any method declared in Animal interface if you implement it in your class.  * There are more specific methods in the classes.	
Stack > LIFO	ok.
Lypush, pop, is Empty, per	
	How to implement stark.
interface stack ?	- Using Krong
int pop();	- Vary hinked hist
void push (int val);	
boolean is Empty ();	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1
Vals Array Stack implement Stack {	las Whak implement Stack &
jut top?	
int I anv;	
int max size;	
void push (int val) 2	
arr[top] = val'	
top+=1,	
int pop () {	
return avr [top];	

boolem is Enysty (){ Stack ISA Linked hist Stack Array Stack Stack ! = new Array Stack(); Stack S2 = new hinked hist Stack (); Principle: Program to Interface, not an implementation gerson who has outhority to grant leave. Beatry mds

Don't code to specific class (implementation), code to an interface. Phonete La Serves went donn. YUBank moratorium. Phone de was miny Yes Bambe! ( april I was down for an entire day & Shifted its bailand APIS from Yes Bornk to ICICI Rande. How 15 Ly Efficient and clean coding every Interfaces. class YesBank Ali ? lass Phone de E int check Balance (long ac.) { YerBankApi api = new YesBank Apri (); add to Wallet () 2 agi. ada to Wallet (); boolen adelfowallet () & api. check Balance ( long account No.); api.pay(); String pay (12 interface Bank API & double checkbalance (); transfer honey ( string from, String to); refita Account (acc. No. Danne);

Class ICICIBANK Mpri E double getbalance (acc. Nu) { int pay (from ace, to are) { Interface Bank API { double checkbalance (); transfer honoy ( string from, String to); hepister treomet ( arc. No, Warre); ICICI Bank implement Bon Yesbank Ali implements Bank Ali

clas Phone de ?

Bank A pi a pi = new 1(1(1 Bank Api ());

api. check Balance ();

api. transfer honey ();

lystems should be lossely coupled.

# Abstruct Classes. Entity La attribute and behaviours. - But I don't know how those behaviours will work. abstract class Animal { -> Abstract dass String name; abstrut int noof hyx (); All child classes of Acrimal will need to implement these abstract unthooks. abstract has Tijer extends trûmel ? Void walk () {

| print ("Tijer is walking");

\* We cannot create objects of Abstract classes.

Avind a= new Typer (); >> X incomplete

class Cut externeds Tiper E int mo. of heps () {

I return y Animal a = nen (at(); ce. walk (); ~ "Tiger is walking"
a. voof dys (); ~ y. 4= @ 700 Cher user = new (fudent!) hist list = new Arrayhist <>(); new him ked hist <>(); List -

2 thing:

- Why multiple intheritance not allowed in Java

- Static Keyword.