Bay 7:- 14-22-04-2023

crim annuck death infing Abstraction:

-> Hiding the implementation part.

-> Data abstraction is the process of hiding certain details and showing only essential information to the usa-

Iwo types:

Abstract class (partially abstraction) Interface (fully abbtraction) static final

Abstract dass.

- In obstract class and methods should be dictored with an abbitract keyword.

The can have abobtract and non-abstract Methods.

- we can't create object.

- It can have constructors and static 44 hods also.

- contains keyword extends.

Example program:

Package org. about raction interfora; public abstract Void PlacementPerorth) public used demo ()

System-out println ("Demo Milhod");

public static void main Estring (spra []

// AriteAradimy a = new AriteAradimy 11 cannot in Mantial

- The abstract may or may not contain the final variables.
- An abstract class have final, statie or non-Static voi non-final bariables-
- An abstract class may provide interface implementation.
- An abstract class is inherited using extends keyword so
- An abstract days can extend other classes Or implement multiple interfales
- In abstract class can have private or protected data members apart from public members !! ("17P - 260 hours

INTERFACE : (fully Abstraction)

A Java interface contain static constants ion abstract methods.

- It contain abstract methods.
- It contain keywood implements.
- fields care public static and final by defout.
- sue can't create object
- only specifier can be used in public in abolivation base in
 - we can have default and statu method. about of

Example Program: Package org. abstractionInterpore; public interface Smortphone { int mem = 5; 11 public Bhatic find; public abstract void interet(); public abstract void touchstrum word display (1; 1/ by default it will take public abstract public défault boid messige () E System out printle C"Interface idefault method");

ptons out printly " 30th fore defoult

Package org. abstractioninterface; Public class AirteJava Trainer extends Airthodemy { 00 mass

2 Douride public void salary Calculation () & System. out . Println ("placement percentage - 97.1.);

11 Defaut method was overside public static boid main (string (Jargs)

{ Samsung s = new Samsung (); s. display (); 6 (); s. faverelognition ();

S.Internat (); & touchscreen ? de pro madage S. mespage (); Multiple Inheritance ochieved using interface! too tide Package oig. abstraction Interface; public interface Smartphone ? int mem =5; public abstract void touchsaul public abstract void enteinet() public default void restage () & System.out. println ('Interface défault word hotspot(); method"); 3 Bulding class Applesonations of ends Package org. abstraction Interface; public viterface Smart Tv { transvolg " all word garning (); wood howportes; Package org. abstraction interface; public idass cansung implements Smartphone, SmallTV { () prix @ override prijemi public woid touchsurence I System Out Printle C'pansung Townson

@ Override publication internet () ¿ System. out. println ("clamsung internit"); @ overvide public void display () { System. out. println ("Barsung display"); public void faceregignition () { System out printly C" Samsung face recognition"); public boid mustage () of "Default method can overide public State word main (string [] augs) { Samsung s = new Bansung (); ø. dipplay (); & fairecognition(); & intend (); S. touch(sucen(); Somessage(); 8. app (); & internet(); D-gaming (); @ Overvide Public void wifi () & System: Out printle ("Hamsing

@Override public void garring () & System. out-print In C" Kan Burg Tv gaming"); Doverrich Public void app() & System out printle C'isamsurg Tv 4 One Impassion & high Endua Doverride word hotspot() ¿ System.out. Println C"common Mchad"); public state veid mand thing [Lands up 5 = 1 : w Swinsung ()5 J. germing ();

Pay-7 - NOTES TAKING: (1) WACONOWS
Abstraction- hidrig data (6) implementation
→ Miding certain roletails → showing espential detail to User.
Public abelian releases sailte de la sur social de la sur
public abstrat class join trainers
Epublic word Dalary_ Computing (1)
a marel en universe par a
Abstract class partially hid
Interface fully hide
Secaus sirumplemented methods are
there and Aring soil 1
Interface - set of rules.

Public class sams ung implements anadophone the implementation part - Body apprehimen in the property de got and bro aladoh methodnamic); interfale is public static final Abeliant does ablustice abanton one with mem = 5; default method syntase. (only is interpal) public défault void message () Ende of business ligits. It can have song reaposts defaut nother can overide Evariable physicans. Recharge org about outlien Pitotapa pulsely aboliant land placementurally Monate Bull siller Super out on it is a some milled ALL LOUI CAGIO (Struck