Class 05	ace Relger	ence Type	9 -	
Flight	flight1 =	new Fli	ght();	
Fligh	flight 1 Hight 2		Rescongers [0] reds [150]	
Hi	Hight 2	Se	esengers O O O O O O O O O O O O O	are changin
	9110 2 = 5	light 1;	Mere we reperence	ob Hights to
	Hight2		bassengers [0] Beal-s [150]	
		>	cal g	collected by 9c

- Java uses access modificers to achieve encapsulation Naming classes: - "Pascal case" Accessors and Mutators -> Use the A/N to pattern to control field access -> Accessor rebaines field value Also called getter (get method) -> Mutator modifies field value Also called setter (set method) Class Initializers and constructors:chaining constructors: One constructor can call another constructor 7 Use this keywood tollowed by parameter list -> this (parameter list) must be first-line He can use access modifiers to control constructors visibility -> limits what code can postorial specific creations.

Encapsulation and Access modificos

Encapsulation and Access modifiers - Java uses access modifiers to achieve encapsulation Naming classes: - "Pascal case" Accessors and Mutators -> Use the A/n to pattern to control field access - Accessor rebaines field value Also called getter (get method) -> Mutator modifies field value Also called setter (set method) Class Initializers and constructors: chaining constructors: One constructor can call another constructor 7 Use this keyword tollowed by parameter list this (parameterlist) must be first-line He can use access modifiers to control constructors visibility -> limits what code can postorial specific creations.

Initialization Blocks; public class Flight { private int passengers, Hight-Number, seats = 150; private char Hight-Class; private bookan[] is Scot Available? boolcal is Seal-Available - new boolean [seats]; delocult volue is for (inti=o; icseats; i++) Jalse is Seal-Available [i] = true; public Flight () { } The above block code will be encouted automatically Here the block code will be executed automatically this . Hight Number - Hight Nomer ? public Flight (char High-class). -> Here also the block code will be
3 ruculous Inititization block shared and executed as it the code work placed at the start of each constructor

parameters immultability: - Changes made to passed values are not visible outside of method.

Overlanding: Each constructor and method must have unique Method signature Name | Number Of parameters | Type of each parameter Vatiable number of parameters: A mothod can be declared to accept a varying number of parameter values public void addlassenger (lassenger... list) it totres any rumber of arguments from 0 to -> place an ellipse (- -) after paramets type. Object Class: hullfin class The object class is the root of the Java class hierarchy > Every class has the characteristics of of object dass.

Every dass inhexits Object class either directly or indisectly. -> Object type reperence can hold any hold any type of object. Equality 3. equals () mothod in object class works as normal == " which checks to whether both the reperences reperencing same object arnot. > MOTTE: it is important to override equals 1 mothed in the sociass with which you are comparing firequals (f2); to object class should overoide equals mathad and coixite code to compare the object data in it. Special Regerence: SUPET -> similar to this, super is an implicit respersence to the current object - super treats the object as it is an instance of its base class -> Usebul for accessing base class members that have been overriden

> constructors are not inherited A base class constructor must dways be called. By delpault, base class' can emplicitly call a base no-argument constructor class constructor using is called. super followed by parameter list. -) must be first line ob constructor. @ overoide - optional annotation used for compiler will sheek outsiding oversiding method has correct syntax or not Strings are immutable zany changes String Class 8 - made in string creats new string object The string class stores a sequence of Unicode characters. stored using UTF-16 encoding String Equality: -Converting non-string types to strings:string value Of (iVal); 70+ ival = 1009 string sval=

Stoing Builder > Storing Builde provides mutable storing buffer , for bast performance pre-size buffer - will grow automatically it needed - Most common mathod: append, insent - Use to Strong "to extract result String. poimitue Hrapper classes:-Objecte Byte shoot Integer Long Float Double He He He -> All wrapper class instances are Integer a = 100; Auto-boxing a compiler willdo int b = a; Auto-Unboxing rammor Integer c- ho immutable Programmo 1 do Explicitly Inleger c - bo Integer d = Integer-volue Of (100); Boxing inte = d. int-Value (19 UnBoxing Integer & = Integer. value Of (e);

stolag == "ST-44"; double 61 = Double parse Double (5) Double 52 = Double value Of (5); Wrappor Glass Equality: Integer 11000A = 10 * 10 * 10 9 Integer 110008 = 100 × 100 Af(11000A == \$1000B) false if (i1000 A. equals (i1000 B) True Tologer isA = + * 2; Integer 18B - 2* 24 20 5 ib (18A = = 18B) true Here Boxing conversions that always reburn the same wrapper class instance for vange given mentioned Values primitive Type -129 to 127 int -128 80 127 Short -129 to 127 byte chave * /40000 kg /400ff ' boolean true, talse

Static Initialization Blocks: Static initilization blocks perform one-time type initialization. > Executed before type's first use outside ob any structure method or constructure static s canot eccess sinstance mambass must handle all sheeted exceptions Nested Types: A nested type is a type declared within another type. 1) classes can be declared 2) Interpaces can be cathin classes and interfaces declared within dia and intri Nested types are members of the enclosing type > Polivate members of the analosing type are visible to the nosted type Nested types serve differing purposes. structure & Geoping No relation ship blue instances of nested and endosing type. -> static classes nested within interpace) -> All dasses nested within interpaces -> All rested interposes

Innoy classes i-

Each instance of nested class is associated with in an instance of enclosing class

Non-static nested within class.

Anonymus Classes:

These are inner classes

Aponymus instances is associted with the containing dass instance.

-> Create as it you are constructing an instance of the interpose or base class