Java SL Review LIJIA XU(11) public class Vehicles Vehicle v1 = new Vehicle intertace and Define using interface keyword the methods inst * every line of code that can actually run private String color; Vehide vz=new Vehide (A); May only have static final vars are implicitly needs to be inside a class every fina Vhehicle() { this, set (olor ("red") Java auto provides can not contain constructor program starts from the main method (Homes abstract, Not a default constructor can extend other interaces need the abstract class Myclassf Vehicle (String c) & to all classes public statle void main (String[] args) { regword A class can implement any number this set(o(ar(c); System. out. printly ("Hi"); String name="A";

Int test=5; int x=34; int x=34; use

++test; 1/test=6; int y=+tx; int y=5+t;

tor

limport java, util 1 y=35

ble class 1/4/1/8555 of interfaces methods in interface > implicitly Arrays and Strings are refaence 3 lut test=5; public void setColor(String c) types Type Custing Jassign one interface Animal ? 11y=34 500 vow of one type to another public void eate); this color = C; long one static member +4perdouble u= 42,582; Public void make sound(); 3 Math Class exists and will be double class My Class? String Public static vold main (string () args)? Int b = (int) a; int a = Math. Pow(2,3); 1/8 shared by all sl); (ounter c1 = new counter); W best ass Cat implements Animal E Up casting : Auto Scanner my Var = new Scanner (System.in); char system, out, println (my Var. next Line !); Animal a = new Catl); public void makeSound UE 4 never tall I Down Casting boolean tor list x=1; x == 5; x++) { } int[arr = Counter. COUNT1/2 to use uppercase System. art. print la ("A"); Anina (a = new Aninal) CI. COUNTIL2 for static variables use array literal to instantiate new intist; public void eat UE ((Eat)a) make sound(); the main method must always be static String[] names = E"A","B", E"3; // street 11 declares system out print(n(118"); * may fail timal = var to constant public static class can not subclassed final double *String names[] // also ekay scanner an array of shregas 3 Anonymous classes = extend the existing import java.util. Scanner most often (index up to 4) poul); methods can not overridden PI = 3,14; classes on the fly only to the current object Scanner my Var = new Scanner (System.in); lass Machine { Java supports nesting Packages & avoid name conflicts and to control > | switch () { for (int x=1; x<=5; x++) { public void startly { access to classes on top of files; parking sample; equals () to/ semantical nextbytel) = system out printly ("A); + system out printla(X); nextshort() != Enum a used to define import classes from packages import samples. Vehicle break; collection of constants & values are comma-separated enum Ranks 3 int[] prines={2,3,5}; next Intl) == default: 4 core in OOP: 7 datahiding: var as private enransulation use setter and getter for values for (int t: primes) { multip dimensional 3 can have more dans SOLDIZE next Long() nablic static void main (string[] ans)s inheritance control way data accessed of modified more flexible and easily change one park and not influence also Machine m = new Machinel) { SERGHAM hext Float) Arrays ~ @ Overvide public void start US nextDoube() int[][] sample = { {1,2,33, {4,5,633}} next Boleant int x= sample [][0] 114 000 next Line() identitio, attributes, behavior abstraction None class to acquire the papers with erits all of another I constructor of the Ranka = Rome System, out printing "B"); [can chee with SOLDIB nou-private vans and Methods constructor of the a switch statement API 3; Unotice the; next() // reduald object's current state cupable of Methods define behavior parameters class A & folymorphism: call to a member Exception int[] a= new int[2]; Academical statements grouped & define the together to perform operation before method public AL) & method will cause a different user error extem.out. prhilin (als)); 3 catch (Exception e) { System. Out println (New A'); Implementation programmer evier gonarte Void > method does not retenant physical resource ystem out printle ("A"; exception depend on the type of method invoking static int sum int vall, int vall) { 4000 attribute veturn vall + vall; to use the within SSUP Java the method method Ovarriding int divinta, intb) throws is a multi-member Arithmetic Exceptions class Bextends A { have sume veturn type 3 detlare an object of Animal method a class and arguments * access 7(6==0){ public class Animal { Animal clay= new Animal(); void bark() { dog, bark();] Access programing language Public BL) { throw new Arithmetic Exegution Systemout. println ("New B"); Not be Mredds 7 notes 2 "Division by zero"); System out println ("Woot"); Modifiers Exception more restricted in the subclass method declared as timal orstatic Application 3 elses From specific to return a/6; 3 ABest to keep vars in a class private Program class Program { can not be ovorvident Intertace 3 A modify using Getters and Setters public static void main (String) augs) [15, com default = any other dass in same package | validate movides special Ilrode lasses to store and 3 cc+ch (Exception Type | e1)? Bobj = new B(); be agritten public Jany other class manipulate groups protected & same as default to the tsubclusses an access apprehase setter the value 11 catch 1 I new B the same name, differ prantice 3 catch (Exception e) { 11 catch all others of objects Anaplist in the mpart java, util Arraylist 3 F private > Aussible only within dass method nethal overloading affected functionality for not specify initial Arnaylist Colors = new Arnaylist () capacity for Public class Vehicles ompile-thue Aparameters should differ in name must be some private String color; Linked List as the class name polymorphism type, number, or both Fricy List (Integer) colors = *Arraylist for No explicit return Data abstraction = representing essential new Arraylist (Integer) (10); public String getColor() { Storing and accessing type | 4think teatures without including implementation details contains() return color; Hach Maps constructors as interfaces Method should be defined assistant of state index) store data collection multi inserts and delets methodsull public void setColor(String C){ in key / value pais the get (key) = value set up duss this. color = C: I multi by default · dearl) import java. util. Hashlap; abstract class Animal? Interface is index starts 0 3 Asingle class can have constructors with boden Hash Map (string, Integer) points = a complete u int legs = 0; abstract void make sound(); abstract class · Contansked); different number of pavameters chap new Hash Map LStying, Integer 70; o contains/q(vel); that contains only abstract methods types: byte, short, int, long, Hoat, double, null@ the absence of a value