10 chinos Object or Pented Programming System oop pa a programming paradegm/ methodology Classification Procedural/ degm > functional .. > logical 6 main pillars of oop are (1) Class (ii) object and methods. (11) Inhevitance (in polymorphism (v) obstraction vi) Encapsulation

"Class"

Animal > cat > object > dogs Brods -> sparmow robject >> peacock 5 Vehicles 3 cars > object cat object. Animal class cay saar ofte Methodo: Work (someone peroform) Animal > eat Birodo Jely Seat Class definition: 1 class is a collection of objects

2. Class la nota real word entity 9 tio just a tamplate, blueprint or prototype.

3. Class doesn't occupy memory.

Syntax of class: access_modéfier lass/ Classiame O O public proivate, § かか default methods - constructors -fields - blocks -nested class Methods
A set of codes which perform a
particular task -3 -) Advantage. (i) code reusability (ii) code optimization Sergel

"Object"

-> Object in an instance of class. > object is real world entity -> object occupies memory table Name Object/ Id necord 101 102 Kaniba nnohona object constata of: (i) state / Att poblute (id, name, session) Behaviour > method -> (eat) # How to execute object in Java? -> By using new keywoord -> By using instance () method 7 By using clone() ",

7 By using clone() ",

diaserialization", -) " factoray

-> by using new keyword & 1) Decleanation 90) Onptantiation iii) gnitfalization 0 U 0 suppose class is animal, say object Enample: 0 7 *** dog) Animal dog; (Peclaration); Logznew Animal (); (ii, iii) 3 [class of area Type, Pack of the Gast -8 -8 (eonstravetors method)7 -3 -3 -3 0 =0 0 Object Infializing: 0 dog.pun(); dog. colors z «Brown"; dog.age=5; Sergel

Sport space & memory allocation always Lynamie े नित्रविश्वानिम ना Cless declaration: Cless Animal public void eat() declapation definition system. out pointru (« of eating Public void voun() system.out.popntln(" gam Bounnerg ?).

अवशाह क्रिक ट्राक्टिस क्रान्टिस क्र main function. publie statie void main (string [] 0 1 1 System. out. proportin (a1"); 1) 4) 1) V 7 Animal dog; 3 dog znew Animal (); dog eat(); Birds Peacock;

peacock = new Birds();

peacock = fly();

dog. pun(); --3 1 } [main function car-close] -0 0 (3) [class animal " "] 5 0 0 3 0 0000



Sergel[®]

A Case lass SCH Class Brads public void fly () System out point In ("9 am flying"); (A) Object initialization:

(By voe feverel variable)

(By method) By constraction

1) By reference variables class Ansmal strong color; intage; public static void main (storng[] ango) 00000000 Animal dog z new Animal (); dog.coloroz "black"; 0 dog age 210; System.out.pophln(dog.colors 0 +10 11+dog.

11 01016366

1+1 01016366 0 0 0 0 0 7 1 0 3 me son stal 3 3 0 0 Sergel

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@ Byvolng method: Closs Animal strong colors; void int obj (strong e, inta); Intage; void désplay() system out println (color public static void main (strologI) E Animal dogz new-Animal (); dog. pntobj (cc black", 10); dog. display ();