Introduction to Object Oriented Kragramming: > Subbone you want to represent a real woold entity called "Andent "g with given properties: (Student) -> name * These are called nat. A, Section * >> attributes]

1, samar agmil. con holl No * >> properties }

email ID * >> fields This same entity can be represented by using a class: to create objects. (Student) of est DRY -> Don't repeat yourself. (Time) Object - It is an instance of a class.
* reference Some type * object Constructor: A constructor is a special method used to initialize objects by using "new" key word. * It is same name as the class. * It has no return type. * There can be infinite constructors in a class. (Constructor Overloading) *** If we create our own constructor, the "default constructor" gets deleted by JVM. 1 Defaut / No-argument construction * Two types: l'alameterize construction. * If we don't create instructor, the JVM generales default constructor. This " Keyword refers to the calling object & c-> sum all other fields from the current class. This sum supersum "Super " keyword is used for the parent class. 4 Villace of Object Grented Programming (1) Cencapsulation: > Wrapping the data Ee the code inside a block so that they are not accidentally modified, is sall be encapsulation. The block here is called the class. Encapsulation is achieved by using "provate" We can access those members outside the doss by using two special methods. Inhelitance: > (NO) can a class extend multiple closses? The property by which a child class object can use members of the parent class, is called inhelitance. In blogramming, we generally have 5 types of multiple inheritance inheritance o A Parent (Interface) 1) single level IB wild w Hybrid inharitance A GranParet (mulh level Part V Hierarchical inheritance (extends) E wild Diamond Problem: > (Object) Class Dog
makesound () {
make sound () {
make sound () {
meow"; !

woof"! class Animal extends Cet, Dog & JVM = Animal cog;
onfused cog. make sound (); X * Abstraction: (Better Uan Emperience) functionality < Showing -> What is being dore implementation hiding -> how it is done Hiding the implementation & shaving only the functionality to the end-voer is called clota valuation. It can have both normal & obstract methods. 1) Abstract classes & methods (0-100-). (u) Intérpres (100%) It can have any empty methods. Place Role Student Unana Customer Daughter Home Poly + Morph Library Strent The process by which Sime nightbol behaves many Joms/shapes differently is Boly morphism 1) Static compile time over loading -> Same class
1) no of parameters of return type
2) dynamic lun time over Riding -> Differ