Н	
and the second	Chapter 10 - Inheritance
	Chapter to Internation
	Inheritance is used to borrow properties & methods from
	Phone] -> [Smort Phone]
_	Super Class -> Gub Class Subclass extende Super Class
	Declaring Inheritance in Java Inheritance in Java is declared using extends keyword
	Superclass
	Subclass catends the superclass
	More Examples who have repaired inval and any and any
00000	Where there the printiple constructions in the part
	Vehicle Animal Vehicle
	Called from that child close to
100	Vehicle Animal Animal Vehicle + + + + Car Dog Cat Truck
	from the partint was we can use Super deal
	When a class inherits from a superclass, it inherits
	When a class inherits from a superclass, it inherits parts of superclass methods and fields. Java doesn't support multiple inheritance ie hub classes Commot be super classes for a subclass.
	Jora abesit support multiple inhervance ie tub classes
	Cannot be super classes for it survais.
	12/1/2012/2012
	Code Example Inheritance in Java is declared using extends keyword
	bublic class Dag extends Animal & Theriting Dag from
	public class Dog extends Animal &> Inheriting Dog from Arimal Class!!
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Quick Quiz: Create a class Animal and Derive another class Dog from it. Constructors in Inheritance
When a Derived class is extended from the Base class,
the Constructor of the Base class is executed
first followed by the Constructor of the derived
class. for the following Inheritance hierarchy, the constructors are executed in the order (1) + (2) + (3) C, → Parent C2 - child Constructors execute in top
to bottom order! Grand child Constructors during Constructor Overloading
When there are multiple constructors in the barent
Class, the constructor without any parameters is
Called from the child class.

If we want to call the constructor with parameters
from the parent class, we can use super keyword Super (a, b); -> Calls the constructor from the parent class which takes 2 Variables this keyword this is a way for us to reference an object of the class which is being created /referenced. this area = 2 > this is a reference to current object

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+ +	A reference variable used to refer immediate parent class object Can be used to refer immediate parent class instance variable Can be used to invoke parent class methods. Can be used to invoke parent class constructors.
→	Mathad Augustaina
	If the child class implements the same method present in the parent class again, it is known as method overriding

Method Overriding If the child class implements the same method present in the parent class again, it is known as method overriding (in subclass) When an object of subclass is created and the overrided method is called, the method which has been implemented in the subclass is called & its code is executed.

Dynamic method distatch Consider the following inheritance hierarchy					
Consider the following inheritance hierarchy					
	suber	→ meth 2 ①			
	1				
9	ab	-> meth 2 (overriden) 3			
Scenario 1 >		Super obj = new Sub() -> Allowed @ obj. *meth 2() -> @ is called (method of object) obj. meth 3() -> Not Allowed @			
JOJIWEIO		obj. rmeth 2() -> (2) is called (method of object)			
		obs. moth 31) - Not Allowed &			
Scenario	2 +	Sub obj = new Super () -> Not Alburd (x)			