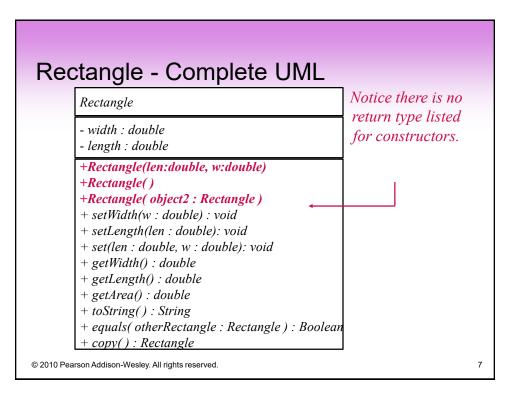
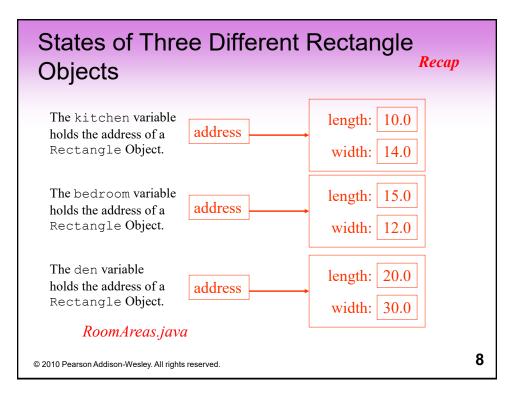
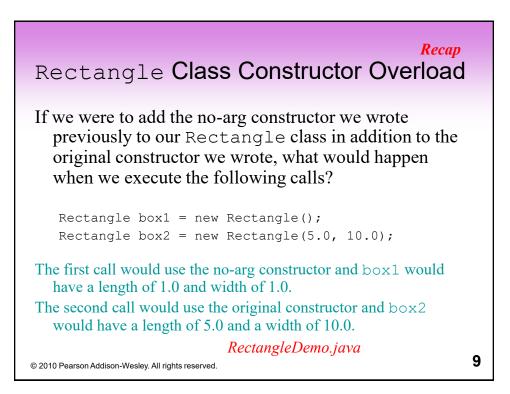
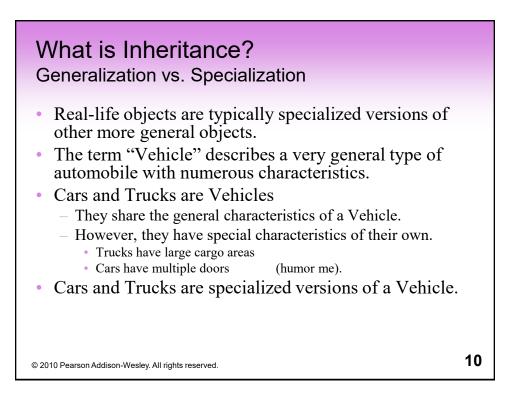


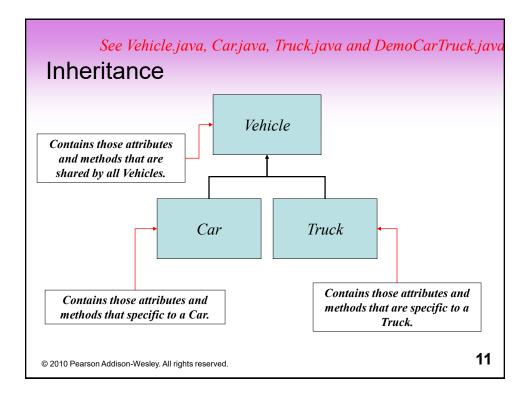
Converting the UML	Diagram to Code
This is a portion of Rectangle	<pre>public class Rectangle { private double width; private double length;</pre>
Rectangle	<pre>public void setWidth(double w) { width = w; } public void setLength(double len)</pre>
- width : double - length : double	<pre>{ length = len; } public double getWidth()</pre>
+ setWidth(w : double) : void + setLength(len : double): void + getWidth() : double + getLength() : double + getArea() : double	<pre>{ return width; } public double getLength() { return length; } public double getArea() { return length * width;</pre>
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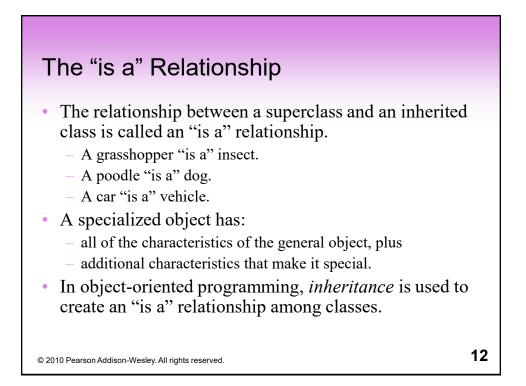


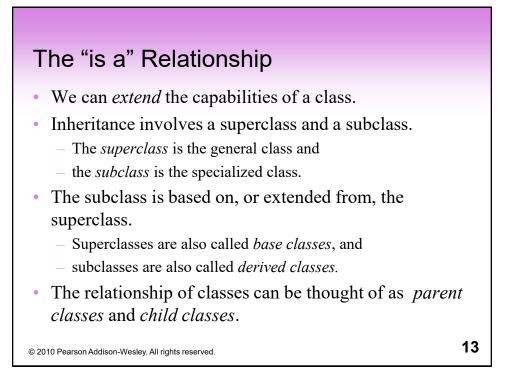


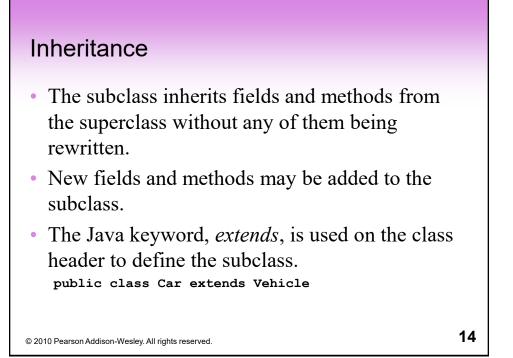


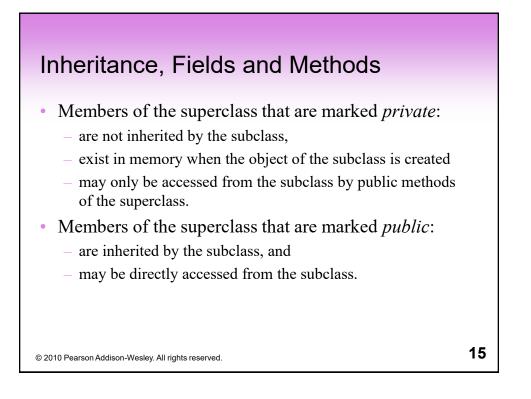


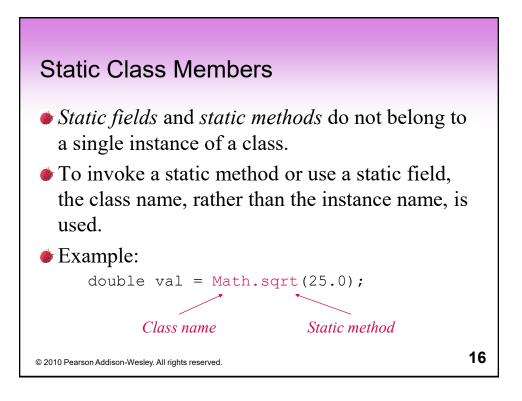


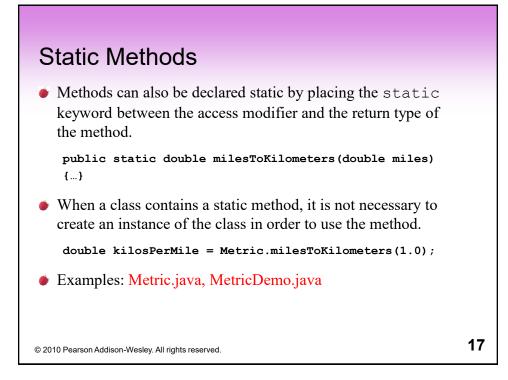


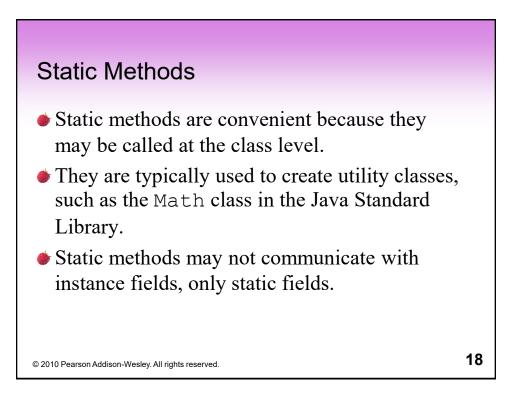




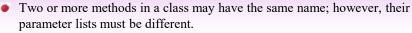


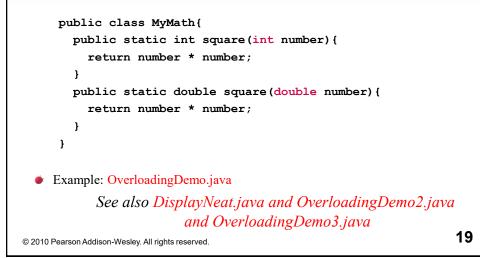


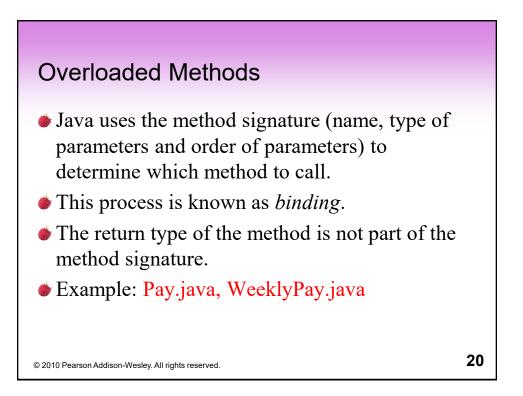


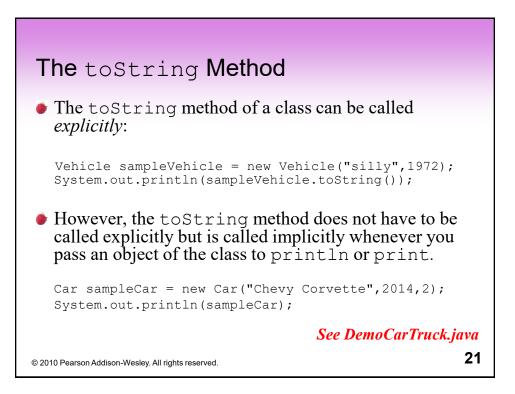


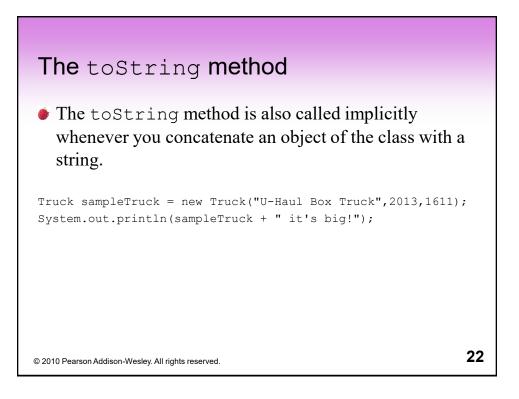
Overloaded Methods

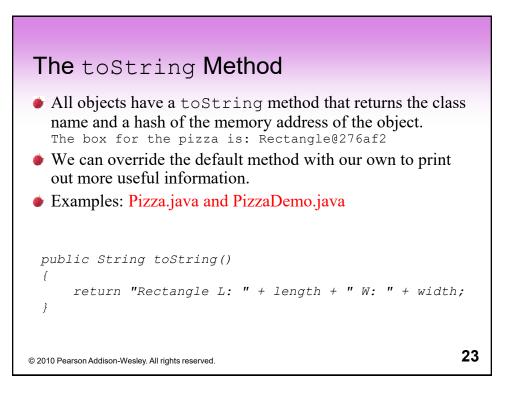


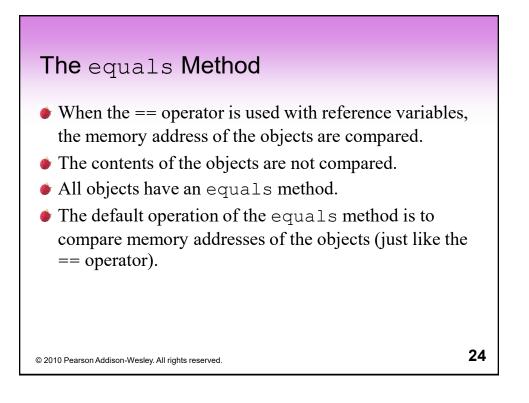


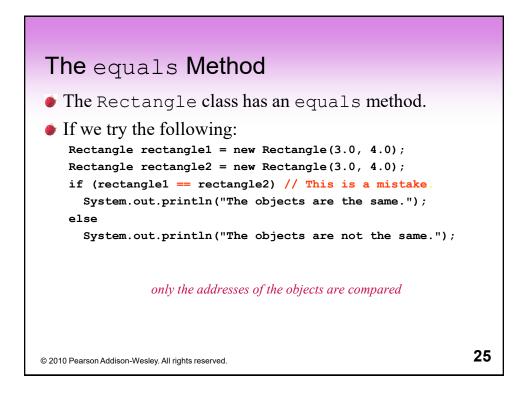


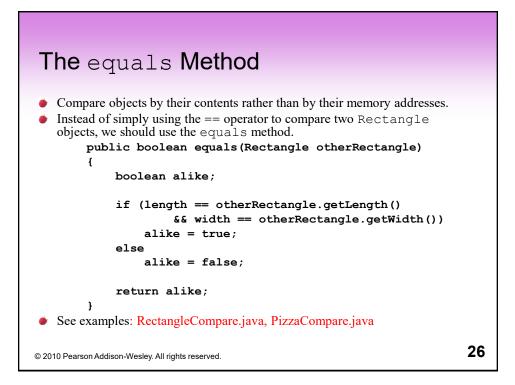


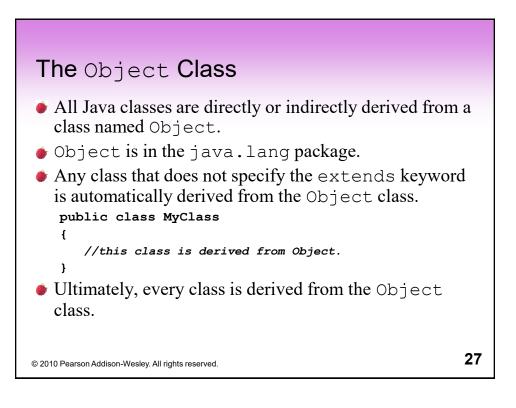


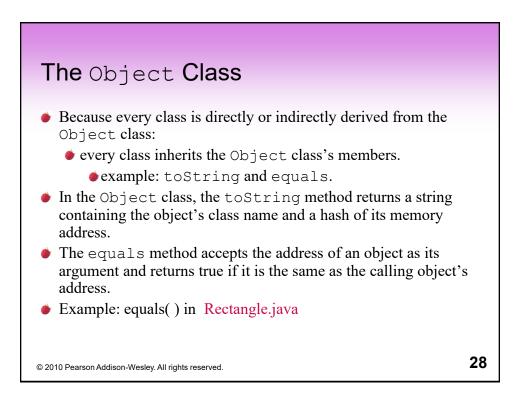


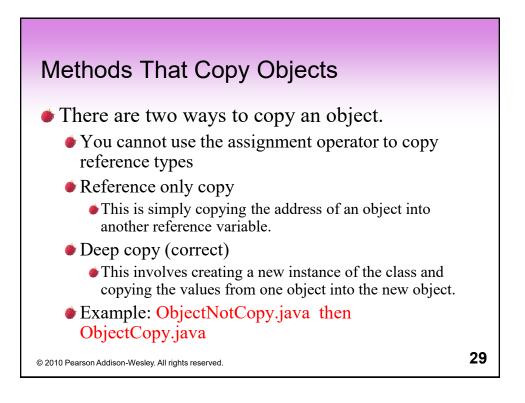










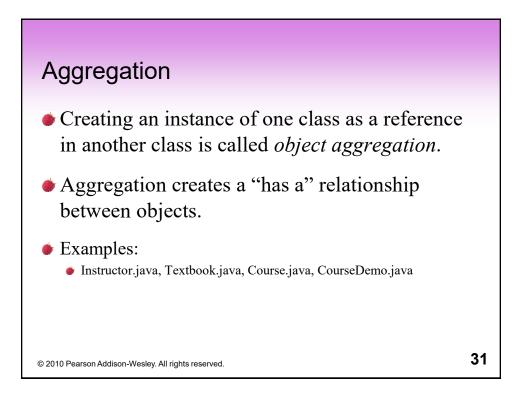


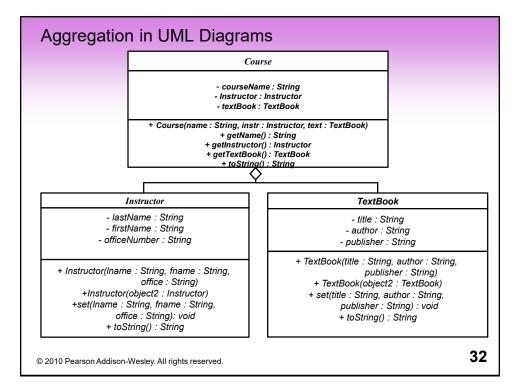
Copy Constructors

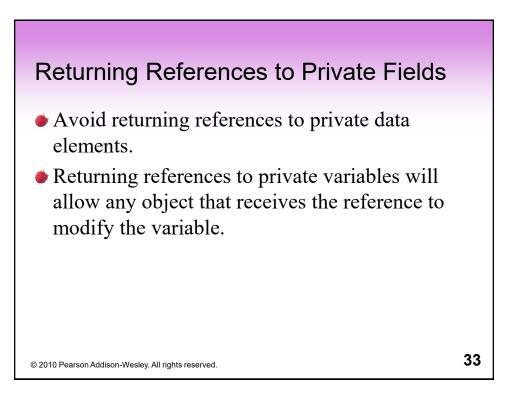
 A copy constructor accepts an existing object of the same class and clones it.

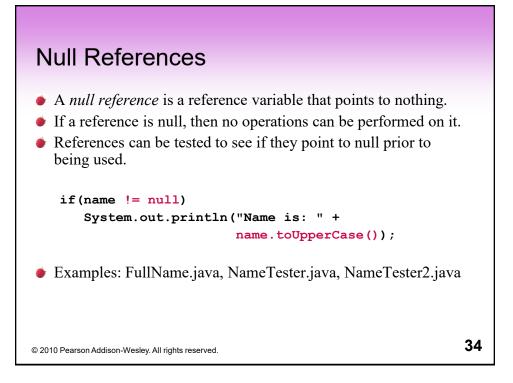
```
public Rectangle (Rectangle object2)
{
    length = object2.getLength();
    width = object2.getWidth();
}
// Create a Rectangle object
Rectangle rectangle1 = new Rectangle(8.5, 11.0);
//Create rectangle2, a copy of rectangle1
Rectangle rectangle2 = new Rectangle(rectangle1);
See ObjectCopy2.java
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```

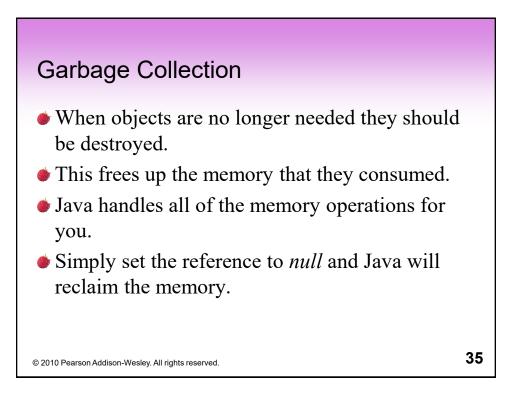
30

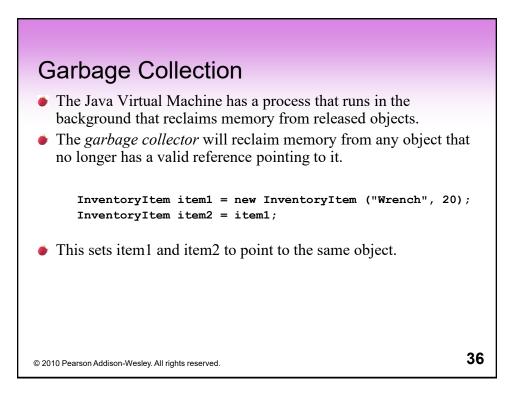












Garbage Collection	An InventoryItem object description: <u>"Wrench"</u> units: <u>20</u>	
item2 Address		
Here, both item1 and item instance of the Invento	1	
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Garbage Collection	An InventoryItem object
item1 <u>null</u>	description: <u>"Wrench"</u> units: 20
item2 Address	
However, by running the co item1 = null, only item2 will be pointing t	;
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Garbage Collectio	ON An InventoryItem object	
item1 <u>null</u> item2 <u>null</u>	Since there are no valid references to this object, it is now available for the garbage collector to reclaim.	
item	in the command: h2 = null ; Will be pointing to the object.	
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