

## **Section 19: Inheritance**

- 1) **Inheritance** allows class attributes (protected and public variables and methods) to be used by another class via extends
- 2) **Using inheritance**
  - a) class Example {}
  - b) class UsesExample extends Example {
- 3) **public attributes** of Example become attributes of UsesExample
- 4) **protected attributes** (like private when using objects of class with protected attributes) of Example become private attributes of Uses Example
- 5) **writing methods in the inheriting class that have the same name as in the inherited class, the method in the inheriting class overrides the method in the inherited class**
- 6) **super.method** – using super invokes the method in the super class (class that the inheriting class inherited from)
- 7) **final return-type attribute** – final makes the attribute unchangeable via inheritance