CompSci 6
Programming Design and Analysis

Feb. 25, 2010
Prof. Rodger
Announcements

• No Reading Quiz for Tuesday
• Assignment 5 due Tuesday - Demo
Inheritance

- Allows you to reuse code
- Start with a Class (superclass)
- Create another class that extends the class (subclass)
- The subclass can use the methods from the superclass or override them (use the same name, but the code is different)
- If the subclass redefines a superclass method, can still call the superclass method with the word “super” added.
Access to Instance Variables (state)

- public
  - Any class can access
- private
  - subclasses cannot access
- protected
  - subclasses can access
  - other classes cannot access
Example

- Student (superclass)
- DukeStudent (extends Student)
- CosmicStudent (extends DukeStudent)

- Look at code, what is the output?
Classwork today

• See modifications to the classes
• Add reading from a file