

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