

# CompSci 6

## Programming Design and Analysis



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# 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