Announcements

- No Reading for Tuesday
- No Reading Quiz for next time

Random Numbers

- Create a random number generator
  Random generator;
- Initialize it
  generator = new Random();
- Generate Random Numbers from 0 to 8
  x = generator.nextInt(9);
- How do you get random numbers from 1 to 10?

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

Classwork today

• Back to bouncing balls
• Create a new BouncingSmiley using inheritance
• Create an ArrayList of bouncing balls and smileys
• Use random numbers for generating the balls and smileys