

CSE 142 Wi 04 – Homework 2  
Sample Solutions

- 1)
- a) Name, online status, picture, group, etc.
  - b) Name: String, online status: boolean, picture: ImageShape object, group: String or Group object (which would have a String name and perhaps a List of Buddy objects).
  - c) Name: “Ralph Wiggum”, online status: true, picture: an ImageShape object with a picture of Ralph, group: a Group object containing friends from school.

- 2)
- double floorSpace (need fractional amounts)
  - int floorCount (a whole number of floors)
  - String address (numbers and street name)
  - Person/String owner (might have a separate Person object)
  - boolean ownerOccupied (answer to yes/no question)
  - int phoneLineCount (a whole number of telephone lines)

- 3)
- a) Tests if this string starts with the specified prefix.
  - b) Change the font.

- 4)
- a) Set the tag line that is intended to get people to get off the couch and drive out in the freezing cold to slide down a slippery slope.
  - b) *Any three of:*
    - resortName: name of this ski resort,
    - tagLine: inspiring tagline,
    - degF: temperature in degrees F,
    - depth: depth in inches*Plus any three of:*
    - getName(): Get the name of this resort,
    - setTagLine(String tag): Set the tag line that is intended to get people to get off the couch and drive out in the freezing cold to slide down a slippery slope,
    - getTagLine(): Get the current tagline,
    - setTempF(double t): Set the temperature in degrees F,
    - setDepthInches(double d): Set the snow depth in inches,
    - getTempF(): Get the temperature in degrees F,
    - getDepthInches(): Get the snow depth in inches.
  - c) 0.0

d) Add the following methods:

```
/**
 * Get the temperature in degrees C.
 * degC = (5.0/9.0)*(degF-32)
 * @return the current temperature value in degrees F
 */
public double getTempC() {
    return (5.0/9.0)*(degF-32);
}

/**
 * Get the snow depth in centimeters.
 * cm = 2.54 * inches.
 * @return the current snow depth in centimeters
 */
public double getDepthCentimeters() {
    return 2.54*depth;
}
```