# Objectives

- Writing to files
  - Practicing refactoring

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1

# **Your Supervisor**



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2

#### Review

- How do we read from files?
- Why do we need to handle reading numerical data specially?
- How do we write to files?

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3

## **Handling Numeric Data**

- We have been dealing with reading and writing strings so far
  - > Read from a file: get a string
  - > Write to file: use a string
- What do we need to do to read numbers from a file?
  - > Cast as a numeric type, e.g., int or float
- How can we write numbers to a file?
  - > Cast number as a str or use format method

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4

### Review: Problem: Temperature Data

- Given: data file that contains the daily high temperatures for last year at one location
  - > Data file contains one temperature per line
  - Example: data/florida.dat
- Problem: What is the average high temperature (to 2 decimal places) for the location?

Rule of Thumb: Always look at data file before processing it

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avgData.py

5

## Problem: Create a Summary Report

- Given: a file containing students names and their graduation years for this class
- **Problem**: create a report (in a file) that says the graduation year and how many students from that year are in this class, on the same line.

Do we need to start this program from scratch? Have code we can use or repackage?

writeSumReport.py

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6