Dictionaries and File I/O

George Mason University
Today’s topics

• Review of Chapter 7: Maps
• Go over examples and questions
• maps in Python
• using files
Maps review

• What is a map? How is it different than a list?
• How do you declare a map?
• How do you get the keys of a map? Values?
• What is a method?
Let’s go over the exercises
Maps (dictionaries) in python

dict = {}
dict[1] = "cat"
dict["dog"] = -8
dict[False] = "squirrel"

print dict.keys()
print dict.values()
print dict
if "dog" in dict.keys():
    print "dog has a mapping!"
if "cat" in dict.keys():
    print "cat has a mapping!"
dict["dog"] = 5
print dict
File Input/Output

• A file is stored data available through the help of the operating system
• So far, we have received user input through the keyboard with `input()`
  – there isn’t always a user there!
• Need to open the file, then get its contents
  – We like to store contents as a string, or list of strings
• Course outcome: look up how to open a file and read its contents on your own
  – use Google
  – use the documentation
  – demo with figuring out how to get keyboard input
Questions?