Announcements

- Reading, RQ07 due next time
- Assignment 3 due Tuesday
- APT 2 due today, APT 3
- Exam 1 – Feb 12
  - try practice test by Feb 10
  - Accommodations? Reschedule? Fill out forms!
- Prof Rodger – out all next week at a conference
  - (yes you still have class, labs, etc)
- Finish notes from last time (APT Emphasize)

Strings – What is output?

```python
name = "Darth Vater"
print name.lower()
nameV = "VVDarth VaterVVV"
print name.strip("V")
print nameV.strip("V")
print nameV.strip("V")
print nameV.find("Vater")
print nameV.find("D")
print nameV.replace("Vat","Tat")
print "mississippi".replace("ss", "pp")
print "type".endswith("e")
print "type".startswith("e")
print nameV.replace("a","o").lower()
```
Lists

• A list is a collection of objects

  scores = [99, 78, 91, 84]
  allAboutMe = [“Mo”, 25, “934-1234”]

• Lists are mutable – use [num] to change a value
• Lists are indexed starting at 0, or -1 from the end
• Functions: max, min, len, sum
• Slice lists [:]

List Examples

scores = [10, 8, 10, 9]
print scores
scores[2] = 5
print scores
print max(scores)
print len(scores)
print sum(scores)
print scores[1:]
print scores[1]

List before/after modification

```
0 1 2 3
10 8 10 9
```
```
0 1 2 3
```
```
10 8 5 10 9
```
```
10 8 10 9
```

Processing List Items

• Process all the items in a list, one item at a time
• Format: for variable in list:
  block

• Example:
```
sum = 0
nums = [6, 7, 3, 1, 2]
for value in nums:
    sum = sum + value
print sum
```