

CS150 - Recap + "Lab" day

Note Title

1/31/2012

Announcements

- Unix help sessions : 12:30 and 5pm
in 121 Ritter 72444

- HW2 is due Saturday
comments are required!

Ch 2:

Objects: Several useful built-in objects in Python

Ex: lists, strings, int, float, tuple, booleans

Immutable versus mutable:

↳ tuple, string

↳ list

Methods:

Lists: p. 42

Strings: p. 56-52

Main differences: mutable versus immutable

Similarities: mylist [6]
mystring [6]

Numbers

$$2/5 = 0$$

$$20/5 = 0.4$$

Operations listed on p. 59

$+$, $-$, $*$, $/$, \parallel , $\%$

x ~~$*$~~ y = x^y
 $\text{abs}(x)$ = absolute value

Booleans

Return True or False

Ex: $<$, $>$, \leq , \geq , \neq , $==$

Can combine:

$x < y$ and $y < z$
↳ both things need to be true

$x < y$ or $y < z$
↳ one must be true
not $(x < y)$

Modules : used to import extra functions

One example: cs1graphics

Others:

```
import math
math.pi
math.sqrt(2)
```

OR

```
from math import pi, sqrt
sqrt(2)
```

Help:

If stuck, python has a "help"
reference built in.

"help list"

Practice

P2.17, p83: Write a script that prompts the user to enter their name in the form:
'firstName lastName'

Then output their name in the form: 'lastName, firstName'

P2.31: Write a program that asks the user to enter 2 integers, separated by a space, & outputs the sum

Ex:

Enter 2 integers: 5 16
Their sum is 21.