Note Tit	25150 - Inheritance (Ch.9)	19/2012
	Announce	
	Announcements - HW Jue Friday (part 1) next part due 11 week laker	
	- Milterm 2 will be coming just before or after taster Unst	

Some notes on the HW not sort! Zoo' is before apple - Each word ends in rewline - Don't forget a unit test + comments/docstrings.

Some User Interface Notes: - Efficient a minimal input Last HW: if input isn't of correct

type, what should the program of

-reprompt in a loop Class quidelines Classes should be self-contained · all values for class are inside the class · generally variables are treated as private Class Methods -perform a specific function - input eitler gotten in the function: J get Interest () or provided as input parameter:

set X5 - It input is wrong type, what to do? depends:
get Interest -rompt
set X - throw an error

Testing a class
Unit tests treat the class like a "black box":
the internals are hidden!

So you just call the functions which are part of the class of check if behaved correctly.

New chapter: Inheritance Goal: Minimize duplication of So never out + paste! We've used: - Loop - Constants - function

What about classes? Clearly, sometimes classes have things in common. person class: -Name -Address student class:

Say a child class inherits the data at methods of its parent class. Generally, the child class will either: - augment: add new data or methods - specialite (+ override) rewrite some methods Simple example: 3-D points Remember our point class? $x_{j}y_{j} + z$

From my Point import Point of Class Three DPoint (Point):

def__init__ (self x, y, z):

#call parent constructor

Point __init__ (self, x, y)

Self. z = z

How to construct our point?

Other functions

-Steel what we can.
Python will call parent class'
function for us if we don't write a new version.

Out job:

-add new functions

- override old functions that are now incorrect