

CS2 20 12-9-20

11

- Final Exam: Tue Dec. 15
From 12:00 PM to 8:00 PM.
You have 2 hours
- SETs: close Sunday Dec. 13
at midnight.
- Pas: ext to Fri. (last!)

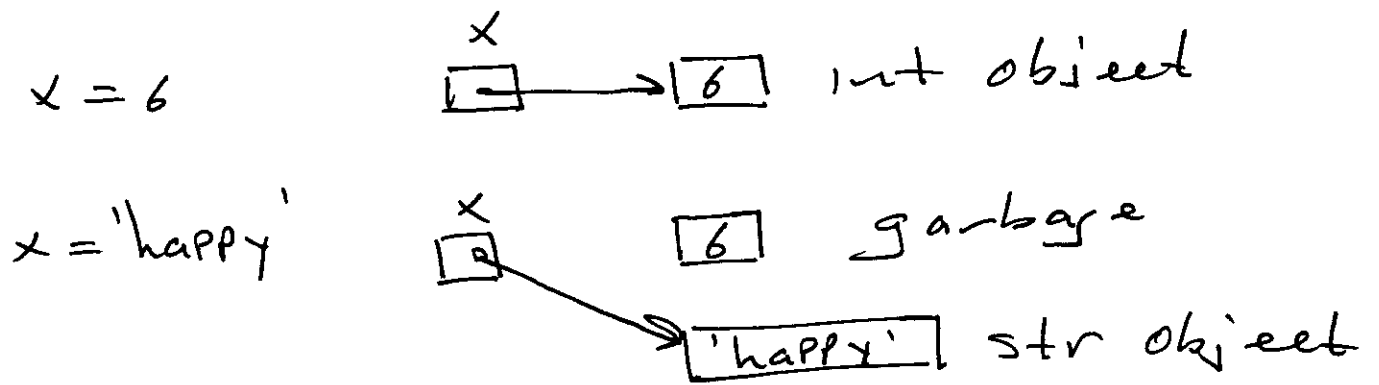
Cont. Chap 14: files

Ex. File4.py

Exercise: alter File4.py to remove
all comments, not just the lines with
"#" at index 0.

chapter 15: classes & objects

all Python variables are references to object, i.e. structured areas of memory.



types: `int`, `float`, `str`, `Turtle`,
`list`, `tuple`, `_io.TextIOWrapper`,

We can create new data types by using 'class' keyword.

Ex `Point1.py`

Encapsulates the `x, y` coordinates of a point in the plane.

Point name of class

Point1 name of module

class members are on attributes or fields

xcoord
ycoord

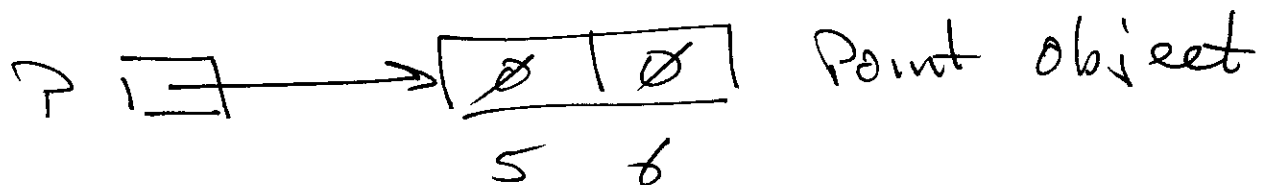
create a Point obj.

P = Point1.Point() → { xcoord = 0
ycoord = 0

access its members

P.xcoord ≠ 0

P.ycoord ≠ 0



P.xcoord = 5

P.ycoord = 6

we can add fields

4

P.foo = 'blah'

P 