UW CSE 190p Section

7/19, Summer 2012

Dun-Yu Hsiao

Homework/Quiz Questions?

Before We Start

- Create and remember save every code and steps you try today!

- If you have any question about today's material, email your report to TA.

Outlines

- PDB recap
- Error messages
- Debugging exercise

PDB Recap

- Using PDB
  - import pdb
  - pdb.set_trace()
  - Next, continue, quit, print, list, step in, return
  - **Careful about overwriting variables**

Common Error Types

- ## AssertionError
  - Raised when an assert statement fails.

- ## EOFError
  - Raised when one of the built-in functions (input() or raw_input()) hits an end-of-file condition (EOF) without reading any data.

- ## IndexError
  - Raised when a sequence subscript is out of range.

- KeyError
  - Raised when a mapping (dictionary) key is not found in the set of existing keys.

- KeyboardInterrupt
  - Raised when the user hits the interrupt key (normally Control-C or Delete).

- NameError
  - Raised when a local or global name is not found.

- SyntaxError
  - Raised when the parser encounters a syntax error.

- IndentationError
  - Base class for syntax errors related to incorrect indentation.

- TypeError
  - Raised when an operation or function is applied to an object of inappropriate type.

Unbound Local Error

- Go back and check variable names

friends = friends(graph, fren)

fof = fof | friends

→

friend = friends(graph, fren)

fof = fof | friend

Assertion Error?

- Check output
  - Print
  - PDB

- How to correctly make the user as a set?

user=set(user) → user=set([user])

Type Error?

- Print, type
- PDB

- Change indentation

More Errors

- fof = fof.remove(user)

- Keep user as a set

- Keep the remove method

Another Type Error

- friends = friends(rj, "Mercutio")

Questions?