CISC101 Reminders & Notes

- Test 3 marks are in Moodle
  - Tests will be returned in tutorial this week

- Exam review exercises in lab this week

- Pre-exam drop-in sessions are being scheduled
  - April 25th from 2-4PM in JEF 155
  - One more TBA

- Office hours end this week

Today

- Guest lecture

- From last time …
  - Remaining Tkinter widgets

- Other Python modules

- Exam preparation checklist

- Exam review
  - Includes topics that will not appear on the exam
  - Slides <u>will not</u> be posted on the website

Other GUI Toolkits

```
http://wiki.python.org/moin/GuiProgramming
```
  - A list of Python toolkits

- PyQT is increasingly popular
  - A wrapper around the QT widgets
    - Developed for use in C++ by Nokia
  - `http://wiki.python.org/moin/PyQt`

Other Python Modules

- pygame is a *third party* module
  - Something that does not come with the standard Python distribution

- `http://pypi.python.org/pypi`
  - Links and info on over 12,000 such packages!

Other Python Modules - Cont.

- SciPy and NumPy
  - http://www.scipy.org
  - Very useful and popular modules for scientific and engineering data analysis and visualization

- Enthought
  - http://enthought.com
  - A complete set of modules including SciPy and NumPy for data analysis and visualization

Other Python Modules - Cont.

- Py2Exe
  - http://www.py2exe.org
  - Can be used to create *.exe executable programs from Python source code
  - Has not yet been released in a version compatible with Python 3.1

Other Python IDEs

- You can develop Python programs using tools other than IDLE
- Eclipse
  - www.eclipse.org
  - Has a Python add-on called PyDev
    - As does Netbeans (www.netbeans.org)
- ActiveState
  - www.activestate.com
  - Distributes an IDE called Komodo and a wrapper around the Python language called ActivePython

Home Stretch!

- The final exam is just around the corner!
  - Similar types of questions to those on the tests
    - Prose-based, what is the output, find the bugs, write a function
  - At least one new variety of question

- If you've been doing well on the tests, great!

- If not, it is not too late!
  - What to do?

Checklist

✓ Review the lecture notes

✓ Re-do the lab exercises
  - ✓ Write the programs without looking at the sample solution
  - ✓ Compare yours to the sample solution

✓ Follow up on your assignments
  - ✓ Fix any problems noted by the TAs
  - ✓ Compare your assignment to the sample solution(s)

Slides courtesy of Dr. Alan McLeod

Checklist – Cont.

✓ Follow up on your quizzes
  - ✓ Fix any problems noted by the instructor
    - ✓ Write your functions in IDLE and debug them
  - ✓ Compare your quiz to the sample solution
  - ✓ Write another section's quiz

✓ Look at the Python tutorials in the resources links

✓ Attend the pre-exam drop-in sessions
  - ✓ Come prepared with questions

Slides courtesy of Dr. Alan McLeod

What's on the Website

- Posted in the Week 12 lab

- Practice problems
  - No solutions

- 2008 and 2009 Fall term final exams and solutions
  - Older winter term exams are in Java
    - That does not mean they are useless!
  - Write the exam before looking at the solution
  - Hand-write your code and try it in IDLE to see if it works
  - Ignore questions on topics we did not cover

Slides courtesy of Dr. Alan McLeod