Outline for April 24, 2014

Reading: none Assignment due: May 2, 2014

- 1. Finishing up calculating π using a Monte Carlo method
 - a. Fifth step: plot the points [mc5.py]
 - b. Sixth step: add the results to the plot [mc6.py]
- 2. How the for loop actually works
 - a. For variable loops through the list
 - b. Iterator: every time it is called, generates next item in the list
- 3. Scope: global, local, parameters [scope.py]
- 4. Handling exceptions
 - a. except [except0.py]
 - b. except error [except1.py]
 - c. else [except2.py]
 - d. except error as msgvar[except3.py]
 - e. finally [except4.py]
 - f. Exceptions in a function: who handles them? [except5.py, except6.py]
 - g. Using global variables as error flags [except6a.py]
 - h. raise [except7.py]
- 5. Common exceptions
 - a. ZeroDivisionError attempt to divide (or take the remainder of) something by 0
 - b. TypeError operation or function applied to operand of wrong type
 - c. SyntaxError Python parser encountered a malformed statement
 - d. NameError local or global name is not found
 - e. ValueError built-in function or operation applied to operator with illegal value
 - f. EOFError input function encounters an end of file
 - g. Keyboard Interrupt user hit the interrupt key (usually control-C)