Outline for January 11, 2012

Reading: §1

1	IDI F
1.	IDDD

- a. How to use it
- b. How to start, open a new window
- c. Python shell, prompt
- 2. Example using IDLE: hello, world
 - a. Explain printing
 - b. Demonstrate program in IDLE
- 3. Second example: compute 2 + 2, properly labeled [twoplustwo.py]
 - a. Difference between '2 + $2^{\,\prime},\,2$ + 2
 - b. Print statements usually end lines
 - c. Getting print statements not to end lines
- 4. Exceptions [divby 0.py]
 - a. Division by zero
 - b. How you handle it
- 5. Third example: chaos program, version 1 [chaos1.py]
 - a. Comments
 - b. Function input() gets input as a string from user
 - c. Function $\verb"float"()$ converts data to a floating point number
 - d. Assignment to variable; evaluate right hand side first
 - e. For loop in detail
 - i. Built-in range() function
 - ii. Index variable \mathtt{i} initialized to 0
 - iii. Loops
 - iv. Expression using multiplication, subtraction, and variables
 - f. Behavior with initial values of $0.25 \ {\rm and} \ 0.26$
- 6. Fourth example: chaos program, version 2, error handling [chaos2.py]
 - a. What if the user types in a non-number?
 - b. What if the user types in a bad number?