

Outline for September 28, 2012

Reading: §1, 5

1. About the class
 - a. Instructors and TAs
 - b. Class web site, handouts
 - c. Smartsite and submitting homework
 - d. Homework, grading, and extra credit
2. What is a computer?
 - a. Computer programs
 - b. Execution
3. Storing data
 - a. Bits and bytes
 - b. Binary number system (base 2)
 - c. Hexadecimal number system (base 16)
4. Software and hardware
 - a. Functional description of a computer
 - b. How the software controls the hardware
 - c. How the hardware limits the software
5. Python
 - a. What is Python?
 - b. Why Python for this class?
6. Programming languages
 - a. High-level languages: semantics and syntax
 - b. Low-level languages: assembly language, machine language