An Interregnum on Modula-2

announcements

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CMPT14x
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Review of §8.2-8.4

- Number bases:
  - Binary, hexadecimal (0xBEEF), octal (0115)
- Bitwise operators: &, |, ^, <<, >>
- Units of measure of memory:
  - Bits, nibbles, bytes, words, pages
- Units of measure for hard disks:
  - C/H/S geometry
- SI units vs binary units, KB vs. Kb, etc.

Programming and Python/M2/C

- The focus of this class is on the software development process: problem-solving using programming
  - WADES, lab write-ups, design, pseudocode
- The particular language isn't so important
  - Python is easy to get started in
- You should be able to pick up any other language on your own easily: M2, C, Java, etc.
- Future CMPT courses may require you to work in M2, C++, or Java
- Today I'll get you started so you can work in M2

Stonybrook M2 environment

- The Stonybrook M2 software is installed on TWU lab PCs (Start->Programs->Computing)

- Stonybrook orientation:
  http://twu.seanho.com/05fall/cmpt14x/stonybrook/

- Start with an empty project file:
  http://twu.seanho.com/05fall/cmpt14x/stonybrook/M2Project.sb

- You can have multiple programs and libraries in one project; all modules in the same project can import from one another

- Create a new program module in this project:
  - File->New Module: Program module type

TODO items

- **HW07** due tomorrow: Py ch9 #5
  - Also, write your own pseudorandom number generator, and
  - Create a histogram using your own pseudorandom, another histogram using the built-in random(), and compare
    - **Built-in random():   102 97 105 101 95**
    - **My random():   87 110 92 105 106**
- **Quiz06 (ch7-8)** tomorrow
- **CMPT140 Final** next week: W-Th 25-26Oct

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