ENSF 692: Lab 5

Programming Fundamentals for Data Engineers

May 21, 2024

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Exercises Today

▶ Assignment Reminder

▶ Upcoming Deliverables

▶ Exercise: list comprehensions and generator expressions

▶ Documentation vs.commenting

▶ Open time to ask questions

Assignment Reminders

- Assignment 2 deadline is extended to **Tuesday, May 22nd at 11:59 pm**
    - Don't forget to submit your HTTPS link via D2L!
    - Make sure all changes have been committed via git
    - Use the discussion board to post/view questions and answers
    - Alternatively, email the instructor directly

Upcoming Deliverables

▶ Assignment 3 link will be available next Monday

▶ Quiz #1 this Friday

   ▶ Friday May 24th in class

   ▶ All material up to Strings and Regular expressions (and corresponding labs) are included in the quiz

   ▶ Varied question formats (multiple choice, matching, short answer, coding, etc.)

   ▶ Practice questions during May 23rd lab

Exercise – List Comprehensions and Generator Expressions

▶ Download the Lab 5 code from D2L

▶ As a group, develop the comprehensions/generators expressions/logic needed to answer the presented problems

▶ Key will be added after the lab

Documentation vs. Comments

▶ Documentation: how to understand and use the functionality of your code

▶ Comments: useful to other developers continuing your logic

▶ docstrings: built-in strings to create program documentation

▶ Access the docstrings for objects using help() or find their direct location

    ▶ e.g. help(int) or print(int.__doc__)

▶ Use triple-double quotes to create your own___doc___property

▶ Conventions: https://www.python.org/dev/peps/pep-0257/

▶ Varied formats (Numpy, Google Doc, etc.)

▶ More add-ons such as docutils (converts to HTML, XML, LaTEx, etc.)