ENSF 692: Lab 3

Programming Fundamentals for Data Engineers

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Exercises Today

▶ Introduce Assignment 2 specifications and demo

▶ Exercise: User input with functions and commenting your code

▶ Exercise: Understanding for-else loops

▶ Open time to ask questions

Assignment Reminders

- Assignment 2 is due **Tuesday, May 21st at 11:59 pm (released tomorrow after class)**
  - Develop a terminal application for processing changes in car vision detection sensors
  - Requires all lesson material to date
  - Don't forget to submit your HTTPS link via D2L!
  - Make sure all changes have been committed via git
  - Last push prior to the deadline will be the version that is graded
- Grading rubric will be posted to D2L

Exercises

▶ Download the Lab 3 code from D2L

▶ As a group, follow and add comments to explain the functionality of the programs

▶ Aspects to consider:

   ▶ How is Method 3 different from the first two input methods?

   ▶ How are the control flow statements used?

   ▶ What are the arguments/return values for each function?

Best Practices for Data Input and Commenting

▶ Will the intended users understand how to properly provide the input?

▶ Better to evaluate the validity of each input right away instead of at the end

▶ Input defaults to a string, consider where casting may need to be used

▶ Comments help other programmers understand your code

▶ Document your user-defined functions

  ▶ The purpose of the function

  ▶ The intended input arguments

  ▶ The return value (if any)

  ▶ Also include comments throughout!

Open Tutorial Time

▶ Any other course content

▶ Troubleshooting