

# ENSF 692: Programming Fundamentals for Data Engineers

Welcome to Lab 4!

Lab 4 focuses on user input, functions, commenting, for-else loops, and error handling in Python. We'll also review assignment requirements and provide open tutorial time.

 by Sarah Shah

# Assignment 2 Reminders

## Due Date

Tuesday, May 20th at 11:59 pm

## Main Task

Terminal application for processing  
car vision detection sensor changes

## Submission

Submit HTTPS link via D2L. Last push  
before deadline will be graded.

# Today's Exercises



## User Input with Functions

Practice getting and validating user input through custom functions



## For-Else Loops

Understand how for-else loop execution works



## Error Handling

Learn to handle runtime errors gracefully



## Open Tutorial Time

Ask questions about course content or Assignment 2

# Lab 4 Workflow



## Download Lab Files

Get the Lab 3 code files from D2L




## Group Analysis

Examine code and add explanatory comments



## Practice Implementation

Apply concepts to your own code examples



## Open Q&A

Address questions about Assignment 2 or course content



# Best Practices for Code Comments



## Function Documentation

Describe purpose, arguments, and return values



## User Perspective

Ensure input instructions are clear to all users



## Control Flow

Explain complex logic and decision points



## Validation Strategy

Document when and how inputs are validated

# Error Handling in Python

