

## ■ Week 2 Summary (Days 1–3)

- **Day 1:** Introduced classes and objects using camera settings.
- **Day 2:** Built a CameraRig class that holds multiple CameraSetting instances.
- **Day 3:** Added logic methods like *is\_bright()* and *evaluate\_exposure()* to help settings make smart decisions.

## ■■ Week 2, Day 4: Input, Validation, and Logging with Loops

■ **GOAL:** Learn how to collect user input in a loop, validate it, and log camera settings to a file.

### ■ Part 1: Build a loop that accepts multiple camera settings

Use a *while True* loop to allow the user to enter multiple ISO/shutter/aperture combinations, and log each setting.

#### Example:

```
while True: iso = input("Enter ISO: ") if iso.lower() == 'q': break shutter = input("Enter shutter speed: ") if shutter.lower() == 'q': break aperture = input("Enter aperture: ") if aperture.lower() == 'q': break setting = CameraSetting(iso, shutter, aperture) setting.log_to_file("camera_log.txt") ■ Part 2: Add input validation (bonus)
```

Use *try/except* to catch errors if the user types a string instead of a number.

### ■ Part 3: Extend your class methods

Use *if/else* inside your CameraSetting methods to make intelligent decisions (e.g., warn if ISO is too high).

### ■ Final Challenge:

Create a menu system that loops through options like:

- View existing settings
- Add a new setting
- Exit the program

■ **Tomorrow:** You'll learn how to format and export logs, and prep for GUI building with PySide6!