## Reflection

Working on this project allowed me to apply different **Python data structures and concepts** in a real-world scenario, framed around *beekeeping honey weights*.

## 1. Integers & Calculations

- o I practiced using built-in functions like sum(), min(), and max() to compute totals, averages, and ranges.
- This reinforced the importance of **basic statistics** when dealing with numerical data.

## 2. Strings & f-strings

- By formatting the honey report with f-strings, I learned how to make outputs more readable and professional.
- o Using f-strings also made it easy to insert computed values directly into text.

# 3. Booleans & Conditions

- o I implemented a **threshold check** with a compound condition (and).
- o This highlighted how boolean logic helps in making decisions, such as labeling honey production as *Above Standard* or *Below Standard*.

### 4. Lists

- Adding, removing, and sorting honey weight records showed the flexibility of lists for managing collections of data.
- o I also practiced **conditional filtering**, which is useful for removing values that don't meet criteria.

### 5. Arrays

- o By using Python's array module, I explored how arrays are more **memory-efficient** than lists for numeric data.
- Comparing array sums with list sums showed that both structures can achieve similar results but may serve different purposes.

### 6. Dictionaries

- Creating a list of dictionaries for hive records let me simulate a mini-database.
- Updating, deleting, and summing dictionary values improved my understanding of **structured data management**.