Day 2 Summary - Arka

PythonWithPyra Day 2 Summary (02 July 2025)

Theme: String Handling, Type Casting, Conditional Logic, and Mini Challenges

Day 2: Mini Missions Completed

Mini Missions:

1. Mini Mission 1 Type Guessing with input() and type()
2. Mini Mission 2 Type Conversion & String Operations
3. Mini Mission 3 Sentence Slicing & Reversal
4. Mini Mission 4 Advanced Type Input & Conversion
5. Mini Mission 5 Word Frequency Counter
6. Mini Mission 6 Grading System with Ranges
7. Mini Mission 7 Simple Word Analyzer
8. Mini Mission 8 Temperature Converter
9. Mini Mission 9 Sentence Palindrome Checker
10. Mini Mission 10 Leap Year Checker
11. Mini Mission 11 Leap Year Range Printer
12. Mini Mission 12 Nested Access Control (Logical Ops)

Badges Earned on Day 2

- Clean Strings Champion 02 Jul 2025
- Word Frequency Warrior 02 Jul 2025
- Grade Master 02 Jul 2025
- Word Analyzer Ace 02 Jul 2025
- Format Hero 02 Jul 2025

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- Palindrome Pal 02 Jul 2025

- Leap Year Pro 02 Jul 2025

- Access Control Specialist 02 Jul 2025

- Mission Complete: Day 2 Finisher 02 Jul 2025

Errors Corrected

if word[0].lower() == 'a' or 'e' or 'i'...

Fixed using:

```
if word[0].lower() in "aeiou":
```

if choice == "ctof" or "ftoc" always evaluates to True

Corrected using:

```
if clean_choice.lower() == "ctof":
```

Pyras Tips

- Use str.translate() to remove punctuation:

```
clean = sentence.translate(str.maketrans('', '', string.punctuation))
```

- To count word frequency, use a dictionary:

```
word_freq = {}
for word in words:
    word_freq[word] = word_freq.get(word, 0) + 1
```

- Use string.lower() and .strip() to clean inputs for consistent comparisons.

- Use .endswith() or sentence[-1] to check sentence punctuation.

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- Use chained comparison like 0 <= marks <= 100 for clean and readable conditions.

Pyras Notes Day 2

clean_sentence logic:

```
import string
clean = sentence.translate(str.maketrans('', '', string.punctuation))
```

- Removes all punctuation from a string efficiently.

Word Frequency (Intermediate)

```
words = clean_sentence.lower().split()
word_freq = {}
for word in words:
    if word in word_freq:
        word_freq[word] += 1
    else:
        word_freq[word] = 1
```

Mini Tip: Type Check + Conversion Combo

```
val = input("Enter a number:")
if val.isdigit():
    val = int(val)
```

Formatting Table Example

```
print(f"|{name:<10} |{float_number:,.2f}|")
```

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End of Day Reflection

- You completed every planned and bonus mission today

- You handled nested conditionals, string formatting, and logic branches correctly.

- Most importantly: You felt more confident and fearless while coding!