Python Practice - Day-1 - 20250317

Problem Statment:

Write a function word_frequencies(sentence) that takes a string sentence and returns a dictionary where:

The keys are words from the sentence (case-insensitive).

The values are the number of times each word appears.

Ignore punctuation (e.g., Hello! and hello should be counted as the same word).

Example:

word_frequencies("Hello world! Hello Python world.")

Output:

{'hello': 2, 'world': 2, 'python': 1}

Solution:

```python
import re
from collections import Counter

def word_frequencies(sentence):
    sentence = sentence.lower()  # Convert to lowercase
    sentence = re.sub(r'[^a-zA-Z0-9\s]', '', sentence)  # Remove punctuation
    words = sentence.split()  # Split into words
    return Counter(words)  # Count occurrences
```