

ChatGPT

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Python String Manipulation Task

String Manipulation Exercise

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Mit einem Teamtarif...

I'm a student learning the Python programming language. I would like to get some programming exercises. I'm not good with string manipulations. Please generate a task that I can use to practice. Don't provide the solution.

Here's a programming exercise to help you practice string manipulation in Python:

Exercise: Word Frequency Counter

Problem Statement:

Write a Python function called `word_frequency_counter` that takes a string as input and returns a dictionary where the keys are the unique words in the string, and the values are the counts of how often each word appears.

Specifications:

- 1. The input string can contain uppercase and lowercase letters, punctuation marks, and numbers.
- 2. The function should treat words as case-insensitive (e.g., "Python" and "python" should be considered the same word).
- 3. Ignore punctuation marks and numbers when counting the words.
- 4. Words should be split by spaces. Ensure there are no extra spaces in the keys or values of the dictionary.
- 5. Return the dictionary sorted by word frequency in descending order. If two words have the same frequency, they should be sorted alphabetically.

Example Input:

```
python
input_string = "Hello, World! This is a test. This test is only a test."
```

Expected Output:

```
python
{
  "test": 3,
  "a": 2,
  "is": 2,
  "this": 2,
  "hello": 1,
  "only": 1,
  "world": 1
}
```

Additional Challenge:

- Modify the function to handle large texts efficiently.
- Add an option to ignore common stop words like "the", "and", "in", etc.

Good luck with the exercise!



Sende eine Nachricht an ChatGPT

