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Python | Count occurrences of each word in given text file (Using dictionary)

Many times it is required to count the occurrence of each word in a text file. To achieve so, we make use of a dictionary object that stores the word as the key and its count as the corresponding value. We iterate through each word in the file and add it to the dictionary with count as 1. If the word is already present in the dictionary we increment its count by 1.

Example #1:

First we create a text file of which we want to count the words. Let this file be `sample.txt` with the following contents:

```
Mango banana apple pear
Banana grapes strawberry
Apple pear mango banana
Kiwi apple mango strawberry
```

Note: Make sure the text file is in same directory as the Python file.

```
# Open the file in read mode
text = open("sample.txt", "r")

# Create an empty dictionary
d = dict()

# Loop through each line of the file
for line in text:
    # Remove the leading spaces and newline character
    line = line.strip()

    # Convert the characters in line to
    # lowercase to avoid case mismatch
    line = line.lower()

    # Split the line into words
    words = line.split(" ")

    # Iterate over each word in line
    for word in words:
        # Check if the word is already in dictionary
        if word in d:
            # Increment count of word by 1
            d[word] = d[word] + 1
        else:
            # Add the word to dictionary with count 1
            d[word] = 1

# Print the contents of dictionary
for key in list(d.keys()):
    print(key, ":", d[key])
```

Output:

```
mango : 3
banana : 3
apple : 3
pear : 2
grapes : 1
strawberry : 2
kiwi : 1
```

Example #2:

Consider a file `sample.txt` that has sentences with punctuation.

```
Mango! banana apple pear.
Banana, grapes strawberry.
Apple- pear mango banana.
Kiwi "apple" mango strawberry.
```

```
import string

# Open the file in read mode
text = open("sample.txt", "r")

# Create an empty dictionary
d = dict()

# Loop through each line of the file
for line in text:
    # Remove the leading spaces and newline character
    line = line.strip()

    # Convert the characters in line to
    # lowercase to avoid case mismatch
    line = line.lower()

    # Remove the punctuation marks from the line
    line = line.translate(line.maketrans("", "", string.punctuation))

    # Split the line into words
    words = line.split(" ")

    # Iterate over each word in line
    for word in words:
        # Check if the word is already in dictionary
        if word in d:
            # Increment count of word by 1
            d[word] = d[word] + 1
        else:
            # Add the word to dictionary with count 1
            d[word] = 1

# Print the contents of dictionary
for key in list(d.keys()):
    print(key, ":", d[key])
```

Output:

```
mango : 3
banana : 3
apple : 3
pear : 2
grapes : 1
strawberry : 2
kiwi : 1
```

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