9 Text Analysis Tool: Build a tool that analyses a paragraph: frequency of each word, longest word,

number of sentences, etc.

```
# Text Analysis Tool

text = input("Enter a paragraph: ")

# Convert text to lowercase
text = text.lower()

# Find number of sentences
sentences = text.count(".") + text.count("?") + text.count("!")

# Remove punctuation
for ch in ",.!?;:":
    text = text.replace(ch, "")

# Convert paragraph into words
words = text.split()

# Find frequency of each word
frequency = {}

for word in words:
    if word in frequency:
        frequency[word] = frequency[word] + 1
    else:
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        frequency[word] = 1

# Find longest word
longest_word = max(words, key=len)

# Display results
print("\n--- Text Analysis Report ---")

print("Number of words:", len(words))
print("Number of sentences:", sentences)
print("Longest word:", longest_word)
print("Length of longest word:", len(longest_word))

print("\nFrequency of each word:")

for word, count in frequency.items():
    print(word, ":", count)
```

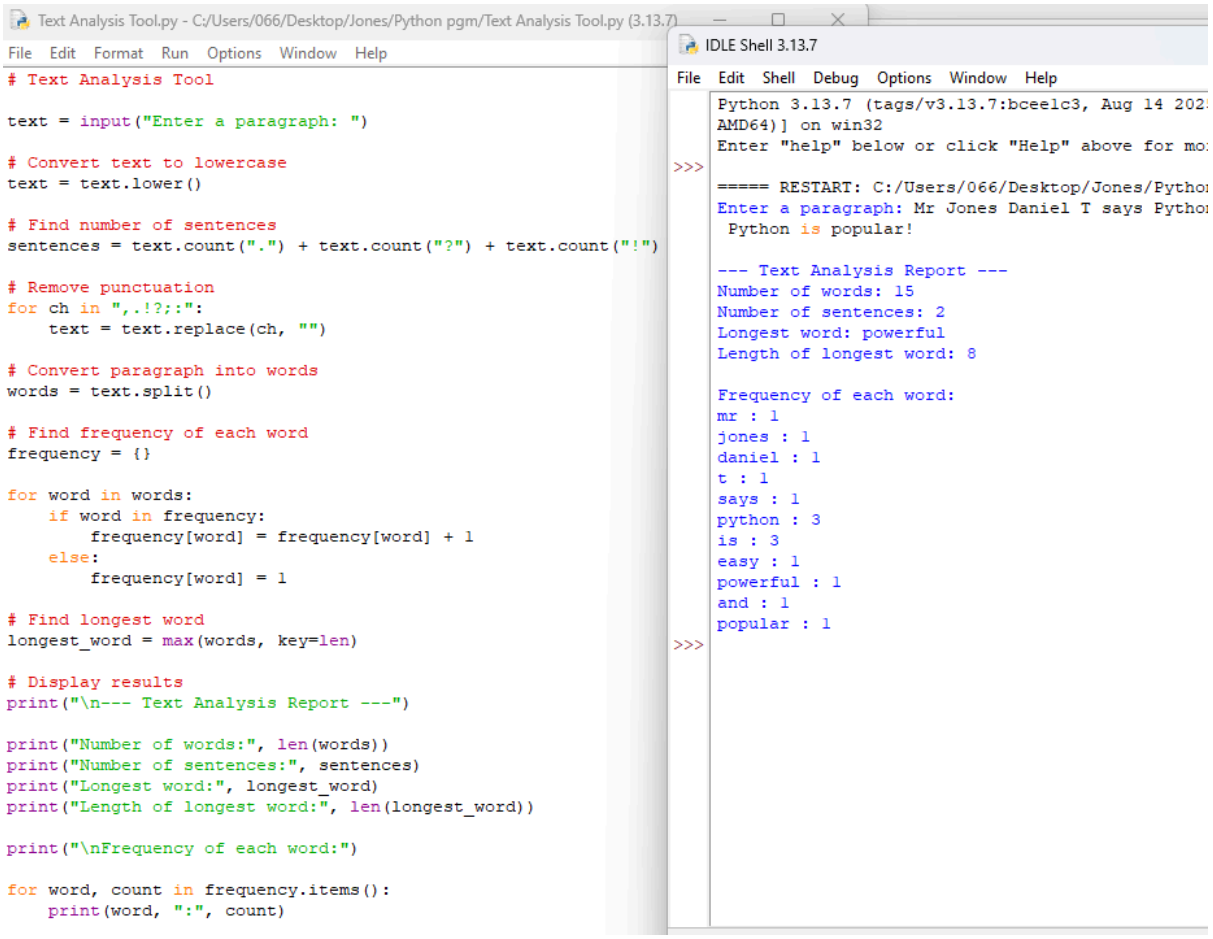
Text Analysis Tool.py - C:/Users/066/Desktop/Jones/Python pgm/Text Analysis Tool.py (3.13.7)
File Edit Format Run Options Window Help
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# Convert paragraph into words
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# Find frequency of each word
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for word in words:
if word in frequency:
frequency[word] = frequency[word] + 1
else:
frequency[word] = 1
# Find longest word
longest_word = max(words, key=len)
# Display results
print("\n--- Text Analysis Report ---")
print("Number of words:", len(words))
print("Number of sentences:", sentences)
print("Longest word:", longest_word)
print("Length of longest word:", len(longest_word))
print("\nFrequency of each word:")
for word, count in frequency.items():
print(word, ":", count)
IDLE Shell 3.13.7
File Edit Shell Debug Options Window Help
Python 3.13.7 (tags/v3.13.7:bcee1c3, Aug 14 202
AMD64)] on win32
Enter "help" below or click "Help" above for mo
>>>
===== RESTART: C:/Users/066/Desktop/Jones/Pytho
Enter a paragraph: Mr Jones Daniel T says Pytho
Python is popular!
--- Text Analysis Report ---
Number of words: 15
Number of sentences: 2
Longest word: powerful
Length of longest word: 8
Frequency of each word:
mr : 1
jones : 1
daniel : 1
t : 1
says : 1
python : 3
is : 3
easy : 1
powerful : 1
and : 1
popular : 1
>>>

Output