****

**Problem Statement: Text Analyzer**

Your task is to create a console application that provides a deeper analysis of a text input by the user. The features of your text analyzer application will be:

1. **Word Frequency Analysis**
   1. Ask the user to enter a sentence.
   2. Split the sentence into an array of words. Assume that words are separated by spaces and punctuation marks (like periods, commas, and question marks) are not part of the words. (array could be of fixed size for now)
   3. Create a method that determines the frequency of each word in the sentence.
   4. Display the frequency of each word to the user in a neat and readable format.
2. **Sentence Maker**
   1. Ask the user to input a number 'N'.
   2. Generate 'N' sentences, each sentence should contain 5 words chosen randomly from the array of words entered by the user in the previous step.
   3. Display these sentences to the user.
3. **Longest and Shortest Word Finder**
   1. Determine and display the longest and shortest words from the user's input sentence.
   2. If there are multiple words with the same length, display all of them.
4. **Word Search**
   1. Ask the user to input a word for search.
   2. Check if the word exists in the user's input sentence.
   3. If it exists, display how many times it appears; if it doesn't, display a suitable message.
5. **Palindrome Detector**
   1. Check each word in the user's input sentence to see if it is a palindrome (a word that reads the same backward as forward, e.g., "radar").
   2. Display all the palindromic words to the user.
6. **Vowel/Consonant Counter**
   1. For each word in the user's input sentence, calculate and display the number of vowels and consonants.

Remember to handle corner cases, such as the user entering an empty string, and to ignore case when comparing strings. Also, keep your code clean and well-structured, and make sure to provide meaningful messages to the user.

**Sample Output:**

1. **Word Frequency Analysis**

Enter a sentence:

Hello world hello friend world

Word Frequency:

"hello": 2

"world": 2

"friend": 1

1. **Sentence Maker**

Enter a number 'N':

3

Generated Sentences:

1. hello friend world hello world

2. world hello friend hello world

3. friend hello world hello world

1. **Longest and Shortest Word Finder**

Longest word(s):

"friend"

Shortest word(s):

"hello"

"world"

1. **Word Search**

Enter a word to search:

world

The word "world" appears 2 time(s) in the sentence.

1. **Palindrome Detector**

There are no palindromic words in the sentence.

1. **Vowel/Consonant Counter**

Vowels and Consonants Count:

"hello": 2 vowels and 3 consonants

"world": 1 vowel and 4 consonants

"friend": 2 vowels and 4 consonants

Please note, these results depend on the initial sentence input and the additional user inputs. It will vary based on these inputs. The structure and formatting of the output should remain the same. The goal is to give users clear and concise information based on their inputs.