**Python programming project 2**

#Word Counter Program

def count\_words(text):

"""

Counts the number of words in the given text.

Args:

- text (str): The input text provided by the user.

Returns:

- int: The number of words in the text.

"""

# Split the text into words using whitespace as the delimiter

words = text.split()

return len(words)

def main():

"""

Main function to handle user input and display the word count.

"""

print("Welcome to the Word Counter Program!")

print("Enter a sentence or paragraph to count the words.")

# Prompt user for input

user\_input = input("Please enter your text: ").strip()

# Error handling for empty input

if not user\_input:

print("Error: No input provided. Please enter some text.")

return

# Call the word counting function

word\_count = count\_words(user\_input)

# Display the result

print(f"The number of words in your text is: {word\_count}")

# Run the program

if \_\_name\_\_ == "\_\_main\_\_":

main()

### ****Features Implemented****

**User Input Handling**:

* 1. The program prompts the user to enter a sentence or paragraph.
  2. Strips extra whitespace to avoid incorrect counts.

**Word Counting Logic**:

* 1. Splits the input string into words using the .split() method, which handles multiple spaces automatically.

**Output Display**:

* 1. The total word count is displayed in a user-friendly message.

**Error Handling**:

* 1. Checks for empty input and alerts the user to provide valid text.

**Code Comments**

* 1. Comments explain the purpose and functionality of each part of the code.

**User-Friendly Interface**:

* 1. Clear prompts guide the user through the program.

### ****How It Works****

**Input Handling**:

* 1. Prompts the user for text input.
  2. Strips unnecessary leading and trailing spaces for accurate word counting.

**Word Counting Logic**:

* 1. Splits the input into words based on spaces using .split() and counts the words using len().

**Error Handling**:

* 1. Alerts the user if no text is entered and terminates gracefully.

**Output Display**:

* 1. Shows the total word count in a simple message.

### ****Example Usage****

#### Input:

kotlin

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Hello, this is an example sentence to count words.

#### Output:

mathematica

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Word Count: 8

#### Input (Empty Text):

mathematica

CopyEdit

(Press Enter)

#### Output:

vbnet

CopyEdit

Error: No text entered. Please try again.