SECOND WEEK INTERNSHIP- PROJECT

**Aim:**

Word Counter (Build a program that counts the number of words in a given text).

**Project Overview:**

As part of your Python Programming Internship, your Week 2 project will be centered around creating a "Word Counter" program. Below is an overview of the project, its objectives, and the necessary requirements and features. The Word Counter project is designed to strengthen your understanding and application of Python programming concepts. The task involves creating a simple program that counts the number of words in a given sentence or paragraph.

**Project Objectives:**

To accurately outline the scope of work required for a project, it is crucial to first identify its objectives. Pinpointing what the project hopes to accomplish will assist in determining its inclusions and limitations.

Understanding Input Handling: Learn how to take user input in Python.

String Manipulation: Explore string manipulation techniques for text processing.

Function Creation: Practice creating functions in Python for modular code.

Basic Control Flow: Implement basic control flow structures to control the program's logic.

Output Display: Display the word count as the output of the program.

**Requirements and Features:**

User Input: Prompt the user to enter a sentence or paragraph.

Word Counting Logic: Implement a function that counts the number of words in the input.

Output Display: Print the word count to the console.

Error Handling: Account for potential errors, such as empty input.

Code Comments: Add comments to explain the purpose of different parts of your code.

User-Friendly Interface: Ensure a clear and user-friendly interface for input and output.

Program:

def count\_words(text):

# Split the text into words

words = text.split()

# Return the count of words

return len(words)

def main():

print("Welcome to Word Counter!")

# Prompt the user for input

text = input("Please enter a sentence or paragraph: ")

# Check if the input is empty

if not text:

print("Error: Input is empty. Please enter some text.")

return

# Call the count\_words function to get the word count

word\_count = count\_words(text)

# Display the word count

print("Word count:", word\_count)

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

main()

**Output:**

Welcome to Word Counter!

Please enter a sentence or paragraph: Understanding Input Handling: You'll need to use Python's input function to get the user's input from the console. Remember to handle any potential exceptions or errors that may occur when taking input.

Word count: 32

=== Code Execution Successful ===

Result:

Source code and output for the word counter using the python programming language .