

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.

Source code:

```
def count_words(text):  
    """  
    Function to count the number of words in the given text.  
    """  
    if not text.strip():  
        return 0  
    else:  
        words = text.split()  
        return len(words)  
  
def main():  
    """  
    Main function to handle user input, call the word counting function,  
    and display the output.
```

```
"""

print("Welcome to Word Counter!")

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

word_count = count_words(user_input)

print("Word count:", word_count)

if __name__ == "__main__":
    main()
```