Title: Python programming Word count

Python code:

def word\_count(sentence):

"""

Function to count the number of words in a sentence.

Args:

sentence (str): Input sentence or paragraph.

Returns:

int: Number of words in the sentence.

"""

# Split the sentence into words

words = sentence.split()

# Count the number of words

return len(words)

def main():

# Prompt the user to enter a sentence

sentence = input("Enter a sentence or paragraph: ")

# Check if the input is empty

if not sentence:

print("Error: Empty input. Please enter a sentence or paragraph.")

return

# Call the word\_count function to count the words

count = word\_count(sentence)

print("Word count:", count)

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

main()

Explanation about the project:

• The word\_count function takes a sentence as input, splits it into words using the split() method, and then returns the count of words using the len() function.

• In the main function, we prompt the user to enter a sentence or paragraph using the input() function.

• We check if the input is empty and display an error message if it is.

• Then, we call the word\_count function to count the words in the input sentence and display the word count to the user.

Requirement & Features:

def word\_count(text):

"""

Count the number of words in the input text.

Args:

- text: The input text to count words in.

Returns:

- count: The number of words in the input text.

"""

# Check for empty input

if not text.strip():

return 0

# Split the text into words and count them

words = text.split()

count = len(words)

return count

def main ():

# Prompt the user to enter a sentence or paragraph

text = input ("Enter a sentence or paragraph: ")

# Call the word\_count function to count the number of words

count = word\_count(text)

# Display the word count

Print ("Word count:", count)

# Entry point of the program

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

main ()

```

This program first defines a `word\_count` function that counts the number of words in the input text. It then defines a `main` function that prompts the user to enter a sentence or paragraph, calls the `word\_count` function to count the words, and displays the word count to the user.

The program also includes comments to explain the purpose of different parts of the code, making it easy to understand and maintain. Additionally, it checks for potential errors such as empty input to provide a better user experience.