**MOTIONCUT INTERNSHIP PROJECT**

**Word Count:**

**def count\_words(text):**

**"""**

**Count the number of words in the given text.**

**Parameters:**

**- text (str): Input text for word counting.**

**Returns:**

**- int: Number of words in the input text.**

**"""**

**# Split the input text into words using whitespace as the delimiter**

**words = text.split()**

**# Return the count of words**

**return len(words)**

**def main():**

**# Prompt the user to enter a sentence or paragraph**

**user\_input = input("Enter a sentence or paragraph: ")**

**try:**

**# Call the function to count words**

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

**# Display the word count**

**print(f"Word count: {word\_count}")**

**except Exception as e:**

**# Handle potential errors, such as empty input**

**print(f"Error: {e}")**

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

**# Run the main function when the script is executed**

**main()**

**Explanation:**

count\_words function: This function takes a string (text) as input, divides it into words as a delimiter using whitespace, and returns the word count.

main task: This task is the primary entry point for the program. It asks the user to enter a sentence or paragraph, calls the count\_words function to get the word count, and then prints the result. This also includes error handling to prevent potential problems such as empty entries.

if \_\_name\_\_ == "\_\_main\_\_": block: This ensures that the main task is executed when the script is executed as the main program.