

Here's a brief description of the program: This Python program provides a GUI-based Paragraph and Character Counter using the `tkinter` library. It allows users to input text into a multi-line text area, press a "Count" button, and view the results showing: 1. Number of Paragraphs: Counts non-empty lines as paragraphs. 2. Number of Characters: Counts all characters in the paragraphs. Features: - Simple and interactive interface. - Real-time result display. - Handles empty inputs gracefully with a warning popup. Usage: 1. Enter or paste text into the provided box. 2. Click the Count button. 3. View the results displayed below.

```
In [4]: import tkinter as tk
        from tkinter import messagebox

        def count_paragraphs_and_characters():
            # Get text from the text area
            content = text_area.get("1.0", tk.END).strip()

            if not content:
                messagebox.showwarning("Warning", "Please enter some text!")
                return

            # Splitting paragraphs and filtering empty lines
            paragraphs = [p.strip() for p in content.split('\n') if p.strip()]
            num_paragraphs = len(paragraphs)
            num_characters = sum(len(p) for p in paragraphs)

            # Display results
            result_label.config(
                text=f"Number of paragraphs: {num_paragraphs}\nNumber of characters: {num_characters}"
            )

        # Create the main application window
        root = tk.Tk()
        root.title("Paragraph and Character Counter")

        # Create a text area
        text_area = tk.Text(root, wrap=tk.WORD, height=15, width=50)
        text_area.pack(pady=10)

        # Create a button to trigger the counting process
        count_button = tk.Button(root, text="Count", command=count_paragraphs_and_characters)
        count_button.pack(pady=5)

        # Label to display results
        result_label = tk.Label(root, text="", fg="blue", font=("Arial", 12))
        result_label.pack(pady=10)
```

```
# Run the application  
root.mainloop()
```

In []: