

Project-2

Python-Based Word Counter Application

Word Counter Program

```
def count_words(text):
```

```
    """
```

```
    Function to count the number of words in a given text.
```

```
    :param text: str - The input text provided by the user.
```

```
    :return: int - The word count.
```

```
    """
```

```
    # Splitting the text by spaces to count words and filtering out any empty strings
```

```
    words = text.split()
```

```
    return len(words)
```

```
def main():
```

```
    """
```

```
    Main function to handle user input and display word count.
```

```
    """
```

```
    print("Welcome to the Word Counter Program!")
```

```
    # Taking input from the user
```

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

```
    # Checking if the input is empty
```

```
    if not user_input:
```

```
        print("Error: You entered an empty input. Please provide some text.")
```

```
    else:
```

```
        # Calling the count_words function to get the word count
```

```
        word_count = count_words(user_input)
```

```
        # Displaying the word count to the user
```

```
        print(f"The number of words in the given text is: {word_count}")
```

```
    #Run the program
```

main()

Out Put:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python Debug Console + - [ ] ... ^ x
PS C:\Users\rr175\OneDrive\Desktop\pyscript\pyscript> & 'c:\Program Files\Python312\python.exe' 'c:\Users\rr175\.vscode\extensions\ms-python.debugpy-2024.12.0-win32-x64\bundled\libs\debugpy\adapter\..\..\debugpy\launcher' '63134' '--' 'c:\Users\rr175\OneDrive\Desktop\pyscript\pyscript\countword.py'
Welcome to the Word Counter Program!
Please enter a sentence or paragraph: word counters are referred to as container that holds the count fo each of the elements that are available in the countainer.The
y allow us to access the stored object. The dictionary class holds the counter as the sub-class. Counter helps us to count the key-value pairs in an object.
The number of words in the given text is: 49
PS C:\Users\rr175\OneDrive\Desktop\pyscript\pyscript> |
```