Weixin Liu

[041008492 (Liu00529@algonquinlive.com)](mailto:04100842(Liu00529@algonquinlive.com)/)

**Design-Program**

Client need

* Name of text:
* Total Non-blank Character Count:
* Total Blank Character Count:
* Percentage Blank Character:
* Total Word Count:
* Word, Count: (each word and count is on a separate line)

Steps

1. Get input from the user:
2. Allow users choose file from computer # from tkinter.filedialog import askopenfilename
3. check the file type of the input #import os
4. Read the file, set the “text = file.read()”
5. Doing the calculation #from collections import Counter
6. Count the blank: “text.count(“”)”
7. Count the no-blank: use for loop and if statement “i != “””
8. Percentage of Blank. “ a/a+b”
9. Total word count #import re use “re.sub(r ‘\W’)” to replace every non-word and \_ into “” then split into list count the length of list.
10. Total word use #from collections import Counter covert the list into the dictionary and add the count as the value of the key.
11. Write result into the output file.
12. For the need of separate line of each word, use for loop and add \n at each line.
13. Use new “file.write” to write into the file.
14. Design the user interface
15. Labels (Name of interface, Name of input, Location of Output)
16. Buttons (Input, Output, Exit)
17. Commands for buttons
18. Input: “openfile()”

a1. connect to step1 get input from user.

a2. Name of input configure

a3. If statement to check the file type. Send message box. #import tkinter.messagebox

1. Output: “start()”

b1. Read file

b2. Connect to step2 Doing the calculation

b3. Connect to step3 Write result into the output file

b4. Location of Output configure

b5. Message box to let user know the analysis is complete.

1. Exit . Destroy the process window.

By going through these steps of my plan.

Two classes defined.

Class Analysis() : from step1 to step 3

Class Interface() : step 4 and 5