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#This program will process gettysburg.txt with total word count, and the
# number of occurrences of each word in the file
#9.1 Programming Assignment
#McKenzie Payne
#Change#:1
#Change(s) Made: Add process_file function
#Date of Change: 5/10/2023
#Change#:2
#Change(s) Made: remove pretty_print function
#Date of Change: 5/10/2023
#Change#:3
#Change(s) Made: added line in process_line to remove space and punctuation
# from word count
#Date of Change: 5/13/2023
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import string
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def process_line(line, dictionary):
    for word in line.split():
        if word != '--':
            word = word.upper()
            word = word.lower()
            word = word.strip(string.punctuation)
            add_word(word, dictionary)

def add_word(word, dictionary):
    if word not in dictionary:
        dictionary[word] = 1
    else:
        dictionary[word] += 1

def process_file(count, new_file):
    with open(new_file, 'w') as wf:
        wf.write('Original Text: gettysburg.txt\n'
                f'Length of the dictionary: {len(count)} words\n'
                f'{ "Word":20 } { "Count" }\n'
                f'{ "":<26 }\n')
        for key, value in sorted(count.items(), key=lambda item: item[1],
                                reverse=True):
            wf.write(f"{key:20}{value}\n")

def main():
    dictionary = {}
    try:
        with open('gettysburg.txt', 'r') as gba_file:
            for line in gba_file:
                process_line(line, dictionary)
        print(f'Opening File...{gba_file.name}\n'
              'Processing...Complete!')
        new_file = str(input('Please enter the new text file name: ')).rstrip()
        if new_file.endswith('.txt'):
            new_file = new_file
        else:
            new_file = new_file + '.txt'
    except FileNotFoundError:
        print("Unable to locate file ")
    else:
        process_file(dictionary, new_file)
        print(f"Your file '{new_file}' has been created.")

if __name__ == "__main__":
    main()
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