Dalen Carr, Matias Espinoza, Elizabeth Poythress

\*We are using Github and Discord to share files. Link: <https://github.com/dalencarr/GA2>

Elizabeth sent appreciating email: 11/2 9:05pm

Dalen sent appreciating email: 11/2 9:15pm

Matias sent appreciating email: 11/2 10:00pm

Programming Tasks.

**1.**

**A)** inputs: password, verified password

Outputs: “Password created”, “Passwords do not match”, “Your password should contain 10 to 15 characters and should be only numbers and letters”

**B)** System Design

1- system asks for password

2- system ask user to verify password

3- if passwords match, password created

4- if passwords do not match, display “passwords do not match”

5- if passwords do not reach the requirements, display output “your password should contain…”

**C**)

# create initial condition so that program will only run when user is not verified  
verified = False  
  
while not verified:  
 # ask for password  
 pw = input("Please enter a password: ")  
 # check password length, make sure it contains letters and numbers only  
 if 10 < len(pw) < 16 and pw.isalnum() and not pw.isalpha() and not pw.isnumeric():  
 # verify password  
 pw\_check = input("Re-enter password: ")  
 if pw == pw\_check:  
 print("Password created.")  
 verified = True  
 else:  
 print("Passwords do not match.")  
  
 else:  
 print("Your password should contain 10 to 15 characters and should be only numbers and letters.")

**D)**

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**2.**

**A)**

Inputs: a line.

Outputs:

delete all punctuation from the string

know the number of words in the string

find out whether or not a specific word is in a string

replace a word in the string

undo all changes

quit

**B)**

System Design

1. System prompts user to enter a string
2. System displays letter options to user
3. User selects option
4. Correlating code runs for the letter entered
5. If user inputs ‘q’ system prompts "Are you sure you want to quit the software? type Yes for confirmation. Type yes for confirmation."
6. User types yes, system displays “End of software.”

**C)**

# Dalen Carr–dcarr18@student.gsu.edu  
# Matias Espinoza–mespinoza2@student.gsu.edu  
# Elizabeth Poythress–epoythress3@student.gsu.edu  
  
import string  
  
string1 = input("Enter a string: ")  
string2 = string1  
print()  
  
# define functionality of the program  
print("Enter p if you'd like to delete all punctuation from the string. \n"  
 "Enter c if you'd like to know the number of words in the string. \n"  
 "Enter w, then type a word if you'd like to know whether that word is in the string. \n"  
 "Enter r if you'd like to replace a word in the string, then enter the word you'd like to replace \n"  
 "followed by the word you'd like to replace it with.\n"  
 "Enter u to undo all changes.\n"  
 "Enter q if you'd like to quit.\n")  
  
# create terminal aesthetic using a 'carrot' and accept user input  
command = input(">")  
  
# quit immediately if user enters q  
while command != 'q':  
 # let user fix mistakes  
 if command == 'u':  
 string1 = string2  
 print(string1)  
 elif command == 'p':  
 # remove punctuation  
 string1 = string1.translate(str.maketrans('', '', string.punctuation))  
 print(string1)  
 elif command == 'c':  
 # print the number of words  
 print(len(string1.split()))  
 elif command == 'w':  
 # tell whether a word is in the string  
 word = input("Enter a word: ")  
 if word.lower() in string1.lower():  
 print("Yes, that word is in the string.")  
 else:  
 print(f'No, {word} is not in your string.')  
 # let the user replace a word  
 elif command == 'r':  
 word = input("Enter the word you'd like to replace: ")  
 replacement = input("Enter replacement word: ")  
 number = int(input('Enter the number of instances of that word you would like to replace.\n'  
 'Press enter to skip this step if you want to replace all instances of that word: ')  
 or string1.count(word))  
 if word in string1:  
 string1 = string1.replace(word, replacement, number)  
 print(string1)  
 else:  
 print("That was not found in the string.")  
  
 command = input(">")  
'''potential alternate implementation for quitting the program:  
if command == 'q':  
 print("Are you sure you want to quit the software? type Yes for confirmation.")  
 choice = input(">")  
 if choice == "yes" or "Yes":  
 print("End of software.")'''

**D)**

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