import string

import getpass

def check\_password\_strength(password):

lower\_alpha\_count = upper\_alpha\_count =

number\_count = whitespace\_count = special\_char\_count

= 0

for char in list(password):

if char in string.ascii\_lowercase:

lower\_alpha\_count += 1

elif char in string.ascii\_uppercase:

upper\_alpha\_count += 1

elif char in string.digits:

number\_count += 1

elif char == ' ':

whitespace\_count += 1

else:

special\_char\_count += 1

strength = 0

remarks = ''

if lower\_alpha\_count >= 1:

strength += 1

if upper\_alpha\_count >= 1:

strength += 1

if number\_count >= 1:

strength += 1

if whitespace\_count >= 1:

strength += 1

if whitespace\_count >= 1:

strength += 1

if special\_char\_count >= 1:

strength += 1

if strength == 1:

remarks = "That's a very bad password. Change it

as soon as possible."

elif strength == 2:

remarks = "That's not a good password. You should

consider making a tougher password."

elif strength == 3:

remarks = "Your password is okay, but it can be

improved a lot"

elif strength == 4:

remarks = "Your password is hard to guess. But you

can make it even more secure"

elif strength == 5:

remarks = "Now that's one hell of a strong

password !!! Hackers don't have a chance guessing that

password."

print("Your password has:-")

print(f"{lower\_alpha\_count} lowercase letters")

print(f"{upper\_alpha\_count} uppercase letters")

print(f"{number\_count} digits")

print(f'{whitespace\_count} whitespaces')

print(f"{special\_char\_count} special characters")

print(f"Password score: {strength}/5")

print(f"Remarks: {remarks}")

print("===== Welcome to Password Strength Checker

=====")

while 1:

choice = input("Do you want to check a password's

strength (y/n) : ")

if 'y' in choice.lower():

password = getpass.getpass("Enter the password: ")

check\_password\_strength(password)

elif 'n' in choice.lower():

print('Exiting...')

break

else:

print('Invalid input...please try again.')

print()