import re

def assess\_password\_strength(password):

strength\_score = 0

criteria\_met = []

if len(password) >= 8:

strength\_score += 1

criteria\_met.append("Length (>= 8 characters)")

else:

criteria\_met.append("Length (< 8 characters)")

if re.search(r'[A-Z]', password):

strength\_score += 1

criteria\_met.append("Uppercase letter(s) present")

else:

criteria\_met.append("No uppercase letter(s)")

if re.search(r'[a-z]', password):

strength\_score += 1

criteria\_met.append("Lowercase letter(s) present")

else:

criteria\_met.append("No lowercase letter(s)")

if re.search(r'\d', password):

strength\_score += 1

criteria\_met.append("Digit(s) present")

else:

criteria\_met.append("No digit(s)")

if re.search(r'[@$!%\*?&]', password):

strength\_score += 1

criteria\_met.append("Special character(s) present")

else:

criteria\_met.append("No special character(s)")

if strength\_score == 5:

strength = "Very Strong"

elif strength\_score == 4:

strength = "Strong"

elif strength\_score == 3:

strength = "Medium"

elif strength\_score == 2:

strength = "Weak"

else:

strength = "Very Weak"

return {

"strength": strength,

"score": strength\_score,

"criteria\_met": criteria\_met

}

password = input("Enter a password to assess its strength: ")

assessment = assess\_password\_strength(password)

print(f"\nPassword Strength: {assessment['strength']}")

print(f"Strength Score: {assessment['score']}/5")

print("Criteria Met:")

for criterion in assessment['criteria\_met']:

print(f"- {criterion}")