Password strength checker

# Python program to check the strength of a password

# Input: You will be prompted to enter a password

password = input("Enter a password: ")

# Define password strength criteria

min\_length = 8

has\_lowercase = False

has\_uppercase = False

has\_digit = False

has\_special\_char = False

# Check password length

if len(password) >= min\_length:

has\_lowercase = any(char.islower() for char in password)

has\_uppercase = any(char.isupper() for char in password)

has\_digit = any(char.isdigit() for char in password)

has\_special\_char = any(not char.isalnum() for char in password)

# Determine password strength

if (

has\_lowercase

and has\_uppercase

and has\_digit

and has\_special\_char

and len(password) >= min\_length

):

print("Password is strong.")

else:

print("Password is weak.")

# Provide recommendations for improvement

if len(password) < min\_length:

print("Password should be at least", min\_length, "characters long.")

if not has\_lowercase:

print("Password should contain at least one lowercase letter.")

if not has\_uppercase:

print("Password should contain at least one uppercase letter.")

if not has\_digit:

print("Password should contain at least one digit.")

if not has\_special\_char:

print("Password should contain at least one special character.")