**Create a Password Strength Indicator for a login page of our website:**

import re

def check\_password\_strength(password):

length = len(password)

has\_upper = any(c.isupper() for c in password)

has\_lower = any(c.islower() for c in password)

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

has\_special = bool(re.search(r'[!@#\$%\^&\\*\(\)\_\+\{\}\[\]:;<>,\.\?~\\-]', password))

issues = []

if length < 6:

issues.append("Password is too short. It must be at least 6 characters.")

if length > 8 and has\_upper and has\_lower and has\_digit and has\_special:

return "Strong", issues

elif length >= 6 and (has\_upper or has\_lower) and has\_digit and has\_special:

return "Medium", issues

else:

issues.append("Password is weak. It does not meet the criteria for a strong or medium password.")

return "Weak", issues

def is\_common\_password(password):

common\_passwords = ["password", "123456", "qwerty", "letmein", "welcome"]

return password.lower() in common\_passwords

def main():

# Decorative header for "VaultofCodes"

header = """

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Welcome to the VaultofCodes! \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

"""

print(header)

while True:

password = input("Enter your password: ")

if is\_common\_password(password):

print("Common passwords are not allowed. Please choose a different one.")

continue

strength, issues = check\_password\_strength(password)

if strength == "Weak":

print("Password is Weak. Please address the following issues:")

for issue in issues:

print(f"- {issue}")

else:

print(f"Password Strength: {strength}")

if \_\_name\_\_ == "\_\_main\_\_":

main()

**OUTPUT:**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Welcome to the VaultofCodes! \*

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Enter your password: 123456

Common passwords are not allowed. Please choose a different one.

Enter your password: ramya

Password is Weak. Please address the following issues:

- Password is too short. It must be at least 6 characters.

- Password is weak. It does not meet the criteria for a strong or medium password.

Enter your password: pass@123

Password Strength: Medium

Enter your password: P@$$w0rd1234

Password Strength: Strong