Create a Password Strength Indicator for a login page of our website Provide a visual indicator showing the strength of the password (e.g., weak, medium, strong). Consider factors like length, presence of uppercase and lowercase letters, digits, and special characters. Hint: If password length is >8 it is strong, greater than 6 and less than 8 is medium, less than 5 is weak

**Sol:** import re

def check\_password\_strength(password):

length = len(password)

if length > 8:

return "Strong"

elif 6 < length <= 8:

return "Medium"

elif length <= 5:

return "Weak"

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

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

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

has\_special = bool(re.search(r'[!@#$%^&\*]', password))

if has\_uppercase + has\_lowercase + has\_digit + has\_special >= 3:

return "Strong"

elif has\_uppercase + has\_lowercase + has\_digit + has\_special == 2:

return "Medium"

else:

return "Weak"

def main():

password = input("Enter your password: ")

strength = check\_password\_strength(password)

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

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

main()