Week-03

New task: Mini project

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)

Code:-

import re

def check\_password\_strength(password):

length = len(password)

has\_lowercase = bool(re.search(r'[a-z]', password))

has\_uppercase = bool(re.search(r'[A-Z]', password))

has\_digit = bool(re.search(r'[0-9]', password))

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

if length > 8 and has\_lowercase and has\_uppercase and has\_digit and has\_special:

return "Strong"

elif length > 6 and has\_lowercase and has\_uppercase and has\_digit:

return "Medium"

else:

return "Weak"

again = True

while again:

password = input("Enter your password or type exit: ")

if password == "exit":

print("Thank you")

again = False

else:

strength = check\_password\_strength(password)

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