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

Program :

import re

def check\_password\_strength(password):

# Define regex patterns to check for uppercase, lowercase, digits, and special characters

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

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

has\_digit = bool(re.search(r'\d', password))

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

# Determine the password strength

length = len(password)

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

return "Strong"

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

return "Medium"

else:

return "Weak"

# Input the password

password = input("Enter your password: ")

# Check the password strength

strength = check\_password\_strength(password)

# Display the strength indicator

if strength == "Strong":

print("Password Strength: Strong")

elif strength == "Medium":

print("Password Strength: Medium")

else:

print("Password Strength: Weak")

output:

1. To get strong password we have to use uppercase, lowercase, digits and special characters

Enter your password: HIgreen2002@:

Password Strength: Strong

1. To get medium password we have to use uppercase and lowercase

Enter your password: HIgreen

Password Strength: Medium

1. To get weak password we can use only uppercase or lowercase

Enter your password: higreen

Password Strength: Weak