**INTERNSHIP WEEK-3**

**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.**

**#PROGRAMCODE:**

import re

def check\_password\_strength(password):

# Define the criteria for password strength

length\_criteria = len(password) > 8

uppercase\_criteria = re.search(r'[A-Z]', password) is not None

lowercase\_criteria = re.search(r'[a-z]', password) is not None

digit\_criteria = re.search(r'\d', password) is not None

special\_char\_criteria = re.search(r'[!@#$%^&\*()\_+{}":;<>,.?~\[\]]', password) is not None

# Count the number of True criteria

criteria\_count = sum([length\_criteria, uppercase\_criteria, lowercase\_criteria, digit\_criteria, special\_char\_criteria])

# Determine password strength

if criteria\_count == 5:

return "Strong"

elif criteria\_count >= 3:

return "Medium"

else:

return "Weak"

# Get the password from the user

password = input("Enter your password: ")

# Check and display the password strength

strength = check\_password\_strength(password)

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

**OUTPUT:**

Enter your password: ak1234

Password Strength: Weak

Enter your password: python5432

Password Strength: Medium

Enter your password:hjwuEGYT@123

Password Strength: Strong