PYHON INTERNSHIP

WEEK 3 TASK

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

**Code:**

import re

def check\_password\_strength(password):

# Define rules for password strength

length\_rule = len(password) >= 8

uppercase\_rule = any(char.isupper() for char in password)

lowercase\_rule = any(char.islower() for char in password)

digit\_rule = any(char.isdigit() for char in password)

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

# Calculate the score based on rules

score = sum([length\_rule, uppercase\_rule, lowercase\_rule, digit\_rule, special\_char\_rule])

# Determine password strength level

if score == 5:

return "Strong"

elif score >= 3:

return "Medium"

else:

return "Weak"

# Example usage

password = input("Enter a password: ")

strength = check\_password\_strength(password)

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

BY

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