

```
import re

def password_strength(password):
    # Define the criteria
    length_criteria = len(password) >= 8
    upper_criteria = re.search(r'[A-Z]', password) is not None
    lower_criteria = re.search(r'[a-z]', password) is not None
    digit_criteria = re.search(r'[0-9]', password) is not None
    special_criteria = re.search(r'[@#$%^&*(),.?":{}|<>]', password) is not None

    # Evaluate the criteria
    strength = {
        'Length (at least 8 characters)': length_criteria,
        'Uppercase letter': upper_criteria,
        'Lowercase letter': lower_criteria,
        'Digit': digit_criteria,
        'Special character': special_criteria
    }

    # Count the number of criteria met
    score = sum(strength.values())

    # Determine strength level
    if score == 5:
        strength_level = 'Very Strong'
    elif score == 4:
        strength_level = 'Strong'
    elif score == 3:
        strength_level = 'Moderate'
    elif score == 2:
        strength_level = 'Weak'
    else:
        strength_level = 'Very Weak'

    return strength, strength_level

def main():
    password = input("Enter a password to assess its strength: ").strip()

    strength, strength_level = password_strength(password)
```

```
print("\nPassword Strength Assessment:")
for criterion, met in strength.items():
    print(f"- {criterion}: {'✓' if met else '✗'}")

print(f"\nOverall Password Strength: {strength_level}")

if __name__ == "__main__":
    main()
```

➞ Enter a password to assess its strength: Chaithanya@Madhav143

Password Strength Assessment:

- Length (at least 8 characters): ✓
- Uppercase letter: ✓
- Lowercase letter: ✓
- Digit: ✓
- Special character: ✓

Overall Password Strength: Very Strong

