# **Prodigy Infotech Internship**

# Task NO\_3

# **Password Complexity Checker**

Build a tool that assesses the strength of a password based on criteria such as length, presence of uppercase and lowercase letters, numbers, and special characters. Provide feedback to users on the password's strength.

# **Prodigy Infotech Ltd**

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### **Password Complexity Checker Tool**

#### Code

```
if score == 5:
    strength = "Excellent"
    feedback = "Your password is strong. Great job!"
elif score == 4:
   strength = "Good"
    feedback = "Add more variety or increase length for even
        stronger security."
elif score == 3:
    strength = "Fair"
   feedback = "Consider adding special characters and
        numbers."
elif score == 2:
    strength = "Weak"
    feedback = "Add uppercase, numbers, and special
        characters. Increase the length."
else:
    strength = "Very Weak"
    feedback = "Use at least 8 characters with a mix of
        upper/lowercase, numbers, and symbols."
```

### **Output/Result**

```
Enter your password: @Econ0_p!u$
if score == 5:
    strength = "Excellent"
                                                              === Password Strength Report ===
    feedback = "Your password is strong. Great job!"
                                                              Strength: Excellent
elif score == 4:
                                                              Feedback: Your password is strong. Great job!
   strength = "Good"
    feedback = "Add more variety or increase length for even
                                                              Criteria Check:
                                                               - Length >= 8: ✓ Passed
elif score == 3:
                                                               - Has Uppercase: ✓ Passed
    strength = "Fair"
                                                               - Has Lowercase: ✓ Passed
    feedback = "Consider adding special characters and
                                                               - Has Numbers: ✓ Passed
                                                               - Has Special Characters: ✓ Passed
elif score == 2:
    strength = "Weak"
    feedback = "Add uppercase, numbers, and special
    strength = "Very Weak"
    feedback = "Use at least 8 characters with a mix of
```