

# Task 6: Password Strength Evaluation Report

**Objective:** Understand what makes a password strong and evaluate it using online tools.

Password	Score (%)	Time to Crack	Feedback
password123	20%	Less than 1 second	Too short, dictionary word used
Myp@ssword	55%	Few hours	Add more symbols & length
T!m3T0W!n#2025	90%	Centuries	Strong mix of characters
G^r8z&J7@!lQpW4mR2	100%	Millions of years	Excellent — long, random, varied chars

## Best Practices for Strong Passwords:

1. Use at least 12–16 characters.
2. Mix uppercase, lowercase, numbers, and special characters.
3. Avoid dictionary words and personal information.
4. Use passphrases for better memorability.
5. Change passwords regularly.

## Common Password Attacks:

- Brute Force: Tries all possible combinations until the correct one is found.
- Dictionary Attack: Uses a list of common words and passwords to guess quickly.
- Credential Stuffing: Uses leaked username-password pairs from previous breaches.

**Conclusion:** Longer passwords with high complexity greatly improve security against brute force and dictionary attacks. Using passphrases and password managers is highly recommended.