



TASK 6

Create a Strong Password and Evaluate Its Strength



JUNE 3, 2025

PRADEEP U S

Multiple Passwords

1. Simple password: password123
2. Medium password: Password2025
3. Strong password: P@ssw0rd2025!
4. Very strong password: 9x!P\$Z@uR#bF1&cL
5. Weak password with symbols: hello!@#
6. Long passphrase: MyDogLoves2ChaseCats!

Used a Password Strength Checker

Result table

Password	Score (%)	Crack Time	Feedback
password123	20%	Less than 1 second	Too common, lacks complexity
Password2025	50%	Few seconds	Better, but still guessable
P@ssw0rd2025!	75%	Few hours	Strong mix, but common base word
9x!P\$Z@uR#bF1&cL	100%	Trillions of years	Excellent complexity and randomness
hello!@#	25%	Less than a minute	Short, lacks numbers and uppercase
MyDogLoves2ChaseCats!	90%	Centuries	Long and memorable phrase

Identify Best Practices

- Use a **mix of uppercase, lowercase, numbers, and special characters**.
- **Longer passwords** are exponentially stronger.
- Avoid **common words, dictionary terms, or personal info**.
- **Passphrases** (e.g., MyCatEats3FishDaily!) are secure and easier to remember.
- **Randomness and uniqueness** are key.

Common Attacks

Attack Type	Description
Brute Force	Tries every possible combination until it cracks your password. Longer and more complex passwords resist this better.
Dictionary Attack	Tries passwords from a predefined list of common passwords and words. Avoid using simple or predictable patterns.
Credential Stuffing	Uses leaked usernames/passwords from breaches to try logging in elsewhere. Use unique passwords per site.

Conclusion

Strong, unique, and complex passwords dramatically improve security against common password attacks. Users should leverage password managers to maintain multiple secure passwords.