

Elevate Labs Task 6

1) Creating password with varying complexity

- sunflower
- Sunflower123
- S!unfL0w3r#2025
- Pa\$\$w0rd
- 59_zr6r4t6Rz9A@

2) Use of Character Variations

- **Included:** Uppercase letters, lowercase letters, numbers, special characters, and varying lengths.
- Goal was to test how combinations of these factors affect password strength.

3) Testing with Password Strength Checker

- For checking password strength, I have used **Kaspersky Password Checker**

4) Scores and Feedback Summary

Password	Tool Rating	Estimated Time to Crack	Feedback
sunflower	Weak	<1 second (dictionary attack)	Too common, lacks variation
Sunflower123	Medium	Minutes to hours	Predictable, lacks special characters
S!unfL0w3r#2025	Strong	Centuries	Good length, randomness, and variation
Pa\$\$w0rd	Weak	<1 second (very common)	Very predictable, commonly used variant
59_zr6r4t6Rz9A@	Very Strong	Centuries	Excellent entropy and randomness

Check and Improve Your Password

Is your password at risk? Check now and generate a strong one in seconds.
We do not collect or store your passwords. [Learn more](#)

sunflower



☐ Contains digits ☐ Contains special symbols ☐ Contains capital letters ☐ No text patterns ☐ Not found in any leaked databases



Don't wait - change your password now

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Sunflower123



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Time to change your password

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Pa\$\$wOrd



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59_zr6r4t6Rz9A@



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Time to change your password

Your password does not appear in any databases of leaked passwords
It is not strong because it lacks length.

5) Best Practices Identified

- Avoid dictionary words and common phrases
- Use longer passwords (12+ characters recommended)
- Mix character types (upper/lower, numbers, symbols)
- Avoid predictable patterns (like '123' or 'password')

6) Tips Learned

- Randomness is key: avoid using real word or predictable substitution
- Password manager help generate and store strong password
- Reuse of password across sites is a major risk

7) Common Password Attack Methods

- **Brute-force attack:** Tries every possible combination.
- **Dictionary attack:** Uses lists of common passwords.
- **Credential stuffing:** Reuses stolen credentials from data breaches.

8. Summary: Password Complexity & Security

Password complexity directly affects how resistant a password is to various attacks. Simple passwords can be cracked in seconds, while strong, complex, and random passwords may take centuries with current computing power. Using a password manager, generating long and unique passwords, and avoiding reuse are critical steps for digital security.