Shailesh_task6

Tools used

• PasswordMeter.com
• HowSecureIsMyPassword.net

1. Create multiple passwords with varying complexity

Password	Description
shailesh123	Simple, lowercase + numbers
Shailesh123!	Mixed case + number + symbol
P@ssw0rd!2025	Complex, long, mixed character types
abcd1234	Predictable and simple
12345678	Easy, only numbers

2. Test each password on password with strength checker.

Password	PasswordMeter Score	Estimated Crack Time
shailesh123	42% - Good	1 day
Shailesh123!	91% -Very strong	4 hundred years
P@ssw0rd!2025	100% - Very strong	2 million years
abcd1234	38% - Weak	Instantly
12345678	4% - Very weak	Instantly

3. Note scores and feedback from the tools.

- PasswordMeter.com gives percentage strength and suggestions.
- HowSecureIsMyPassword.net estimates crack time and detects breached passwords.

4. Identify best practices for creating strong passwords.

- Use at least 12-16 characters
- Mix uppercase, lowercase, numbers, and symbols
- Avoid dictionary words and patterns

- Use unique passwords for each account
- Consider using passphrases

5. Write down tips learned from the evaluation.

- Longer passwords are more secure
- Symbols and numbers increase strength
- Avoid common words or names
- Substitutions alone are not enough

6. Research common password attacks (brute force, dictionary).

Attack Type	Description
Brute Force	Tries all possible combinations
Dictionary Attack	Uses common words
Credential Stuffing	Uses leaked credentials
Phishing	Tricks users to reveal passwords

7. Summarize how password complexity affects security.

- Low complexity = easy to crack
- High complexity = billions of years to crack
- Password managers help manage strong passwords
- Focus on length, variety, unpredictability

Outcome:

Learned how password complexity improves security and identified best practices for creating strong, secure passwords using online evaluation tools.

How Secure Is My Password?

The #1 Password Strength Tool. Trusted and used by millions.

It would take a computer about

4 hundred years

to crack your password