REPORT

→ Password, their strengths and feedback details of the tool.

Password	Strength	Length	Time to Crack	Out of (N,S,UC,LC)
jinendrasharma	Strong	14	2 months	2
asdf@#Jinendra	V.Strong	14	42 yrs	3
Jine$%ndra12	V.Strong	12	759 yrs	All
Rishi@#$ihsiR	V.Strong	13	23 yrs	3
Rishi@#23ihsiR	V.Strong	14	14 centuries	All
Jinendra@12345246	V.Strong	17	20 centuries	All
Jinendra123456789	Medium	17	2 days	3
Jine123456789ndra	Strong	17	7 months	3
123456789Jinendra	Medium	17	2 days	3
12345Jinendra6789	Strong	17	1 month	3
12345Jine6789ndra	V.Strong	17	8 yrs	3
12Ji345ne67ndra89	V.Strong	17	90 Billion yrs	3

Important Note- N, S, UC, LC stands for Numbers, Symbols, Uppercase, Lowercase respectively.

2.Best practices to create strong passwords

- Password should atleast 12 characters long.
- Should include numbers, symbols, uppercase and lowercase letters.
- Should be random and unpredicatable.
- Avoid Personal information in your password.
- Check strength of password online then only use it.
- Use MFA(Multi Factor authentication) to add a extra layer of security to your account from being hacked.

3. How Complexity Strengthens Security

1. **Resistance to Brute-Force Attacks**

- Brute-force attacks try every possible combination.
- A simple 6-character password with only lowercase letters has **308 million possible combinations**.
- A 12-character password mixing uppercase, lowercase, numbers, and symbols has **over 10^21 combinations**, making brute-force practically impossible.

2. **Defense Against Dictionary Attacks**

- Attackers often use lists of common words or leaked passwords.
- Adding complexity (symbols, numbers, mixed case) makes passwords less predictable and less likely to appear in these lists.

3. **Protection from Credential Stuffing**

- Reused or simple passwords are easily exploited in credential-stuffing attacks.
- Complex, unique passwords reduce the chance of being compromised across multiple accounts.

4. **Policy Enforcement**

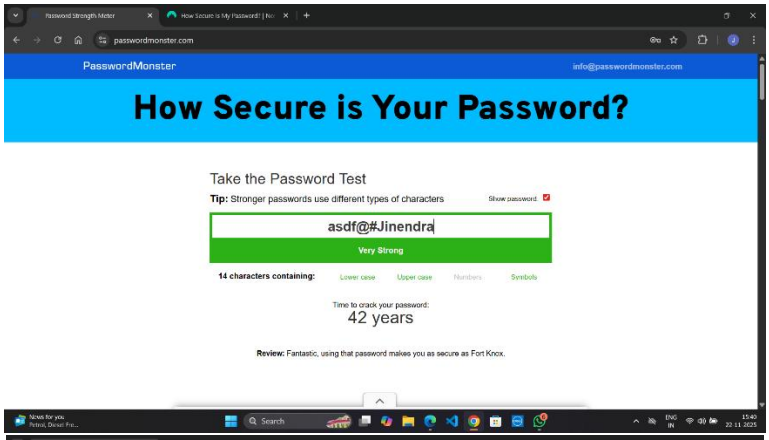
- Systems like Windows enforce complexity rules (e.g., disallowing usernames or full names in passwords) to prevent weak, guessable credentials.

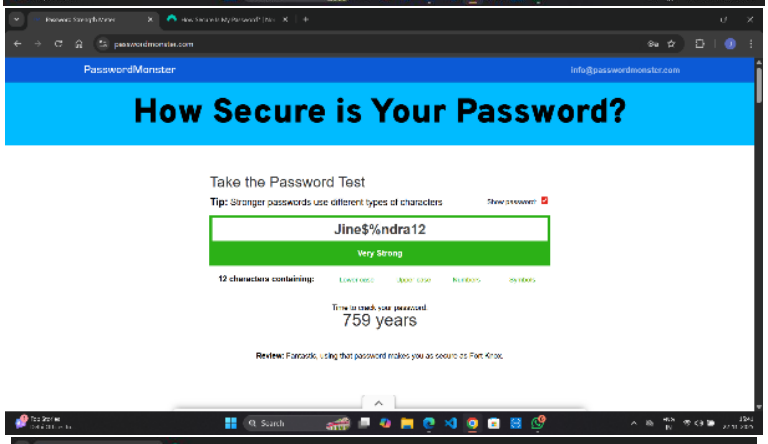
Brute force and Dictionary attacks—

1.Brute force attack- It is basically a type of attack in which attacker tries every possible combination of password to crack the password. It purely depends on computing power and inefficient as well.

2.Dictionary attack- In this type of attack, we give a list of word to the attacking software and it tries each password can be formed from the words are present in the dictionary and it is a better option than brute force attack. But it is also inefficient for lengthy and random passwords.

Appendix


passwordmonster.com
PasswordMonster
info@passwordmonster.com
How Secure is Your Password?
Take the Password Test
Tip: Stronger passwords use different types of characters
Show password
asdf@#Jinendra
Very Strong
14 characters containing:
Lower case
Upper case
Numbers
Symbols
Time to crack your password:
42 years
Review: Fantastic, using that password makes you as secure as Fort Knox.


passwordmonster.com
PasswordMonster
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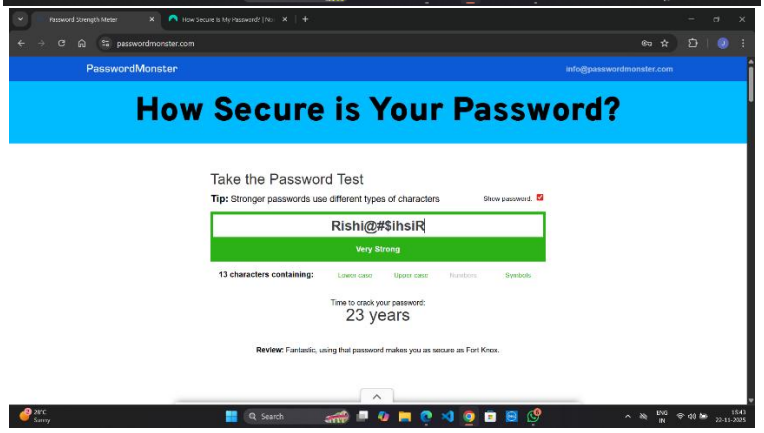
Very Strong
12 characters containing:
759 years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Show password
Rishi@#$ihsiR
Very Strong
13 characters containing:
Lower case
Upper case
Numbers
Symbols
Time to crack your password:
23 years
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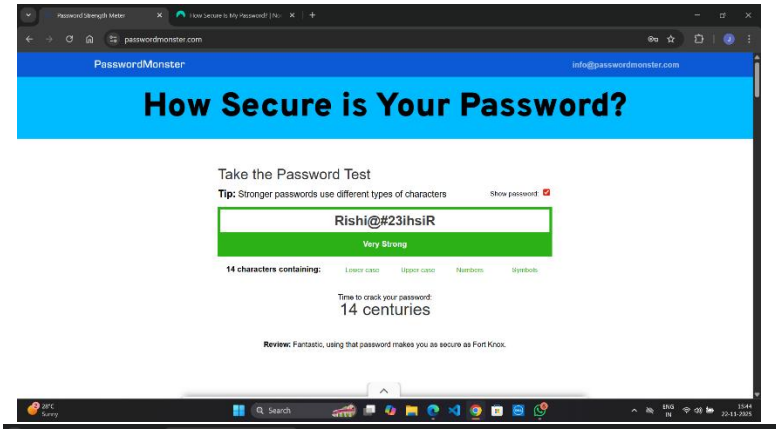
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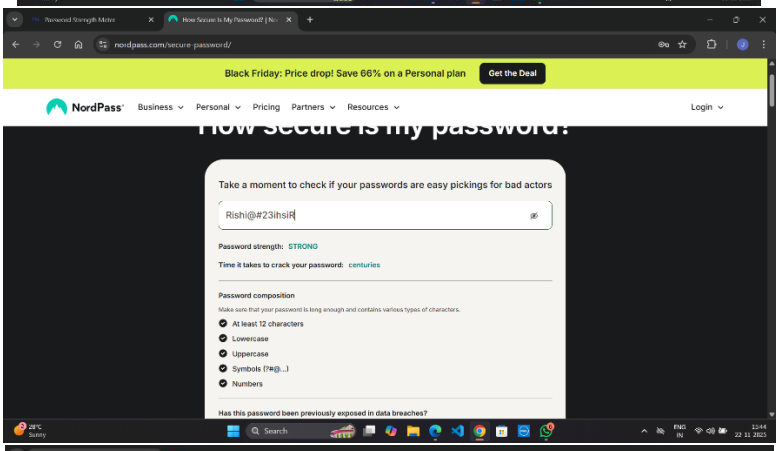
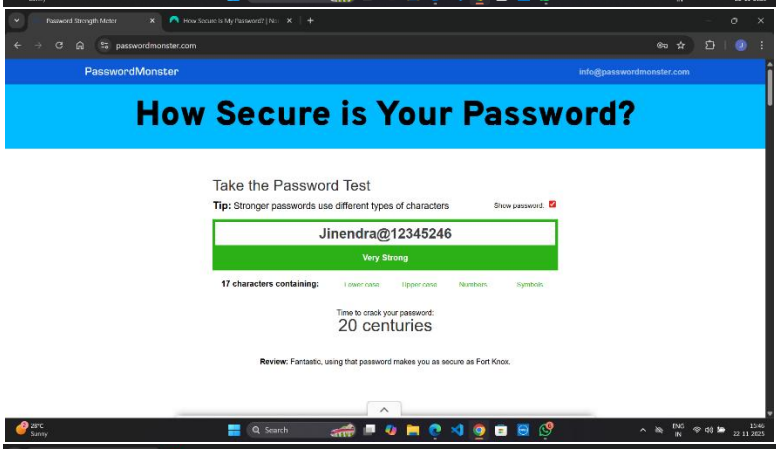

nordpass.com/secure-password/
Black Friday: Price drop! Save 66% on a Personal plan
Get the Deal
NordPass
Business
Personal
Pricing
Partners
Resources
Login
Take a moment to check if your passwords are easy pickings for bad actors
Rishi@#23ihsiR
Password strength: STRONG
Time it takes to crack your password: centuries
Password composition
Make sure that your password is long enough and contains various types of characters.
At least 12 characters
Lowercase
Uppercase
Symbols (?#@...)
Numbers
Has this password been previously exposed in data breaches?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17 characters containing:
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Numbers
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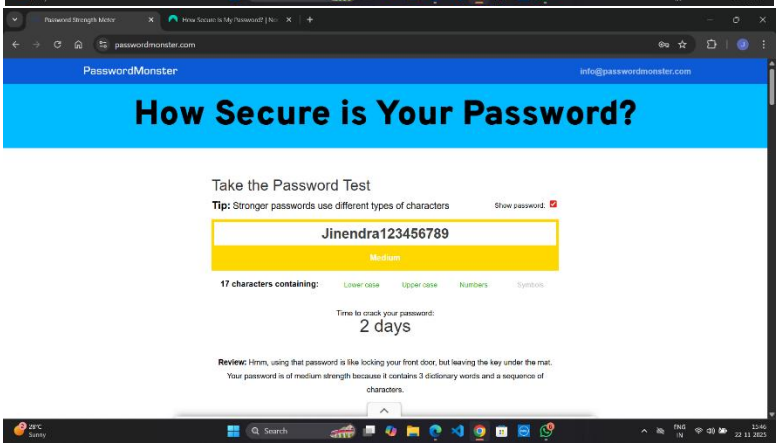
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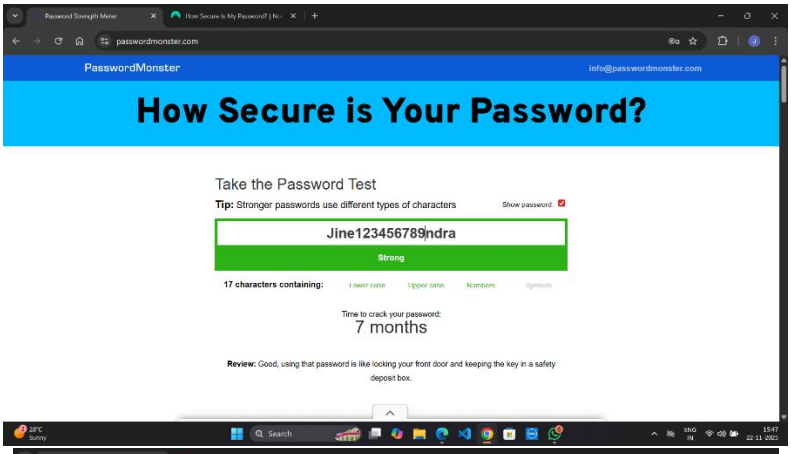
Jinendra123456789
Medium
17 characters containing:
Lower case
Upper case
Numbers
Symbols
Time to crack your password:
2 days
Review: Hmm, using that password is like locking your front door, but leaving the key under the mat. Your password is of medium strength because it contains 3 dictionary words and a sequence of characters.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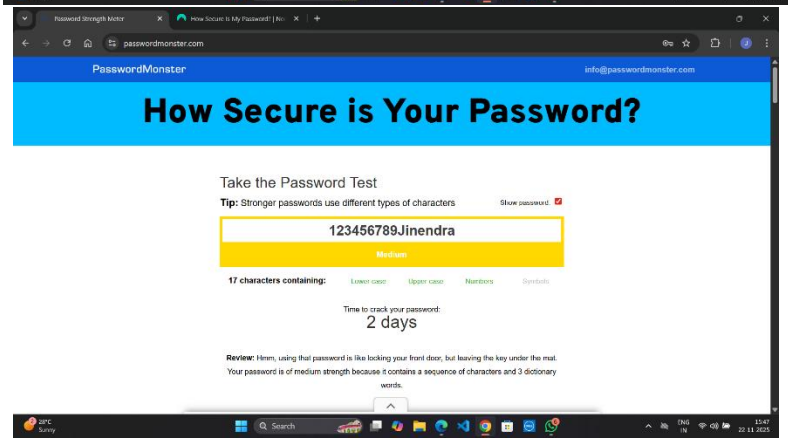
Tip: Stronger passwords use different types of characters
Show password:
Jine123456789ndra
Strong
17 characters containing:
Lower case
Upper case
Numbers
Symbols
Time to crack your password:
7 months
Review: Good, using that password is like locking your front door and keeping the key in a safety deposit box.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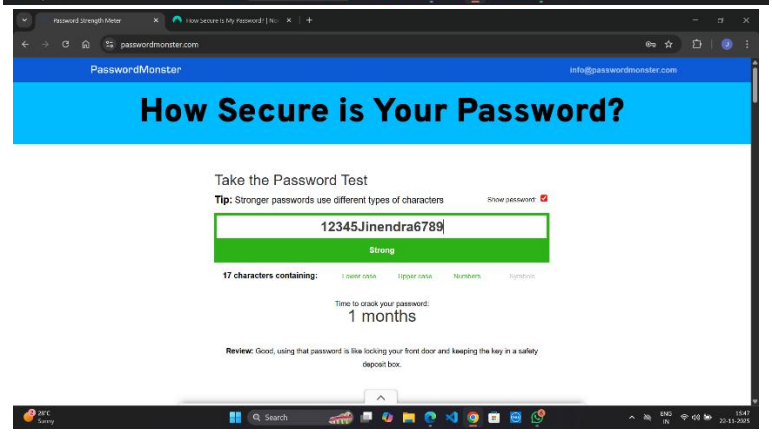
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Numbers
Symbols
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1 months
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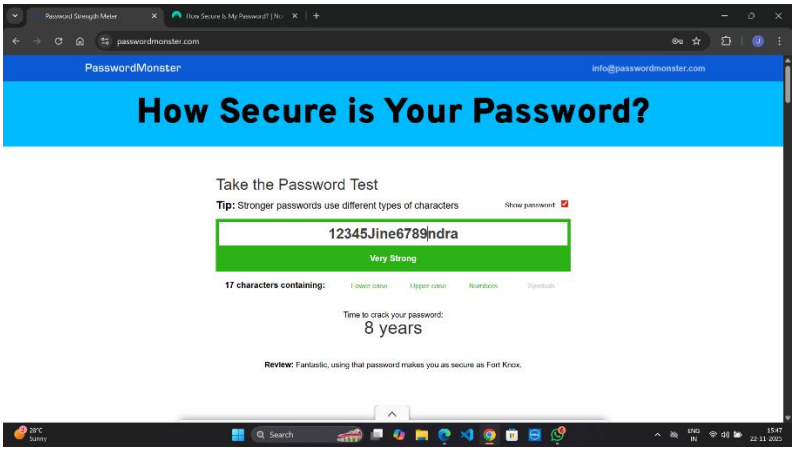
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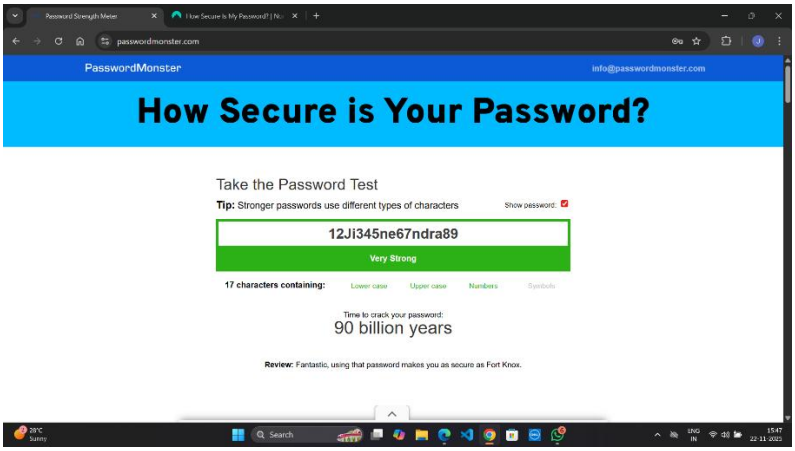
29°C
Sunny
Search
ENG
IN
15:47
22-11-2023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22-11-2023