

Task Objective:

Understand **what makes a password strong**, test various passwords using **online strength checkers**, and identify best practices through research.

The following are the different types of passwords.

Password	Type
hello123	Simple, lowercase + numbers
Hello@123	Mixed case + special character
Pr@n@v@2025	Stronger, includes symbols, length
QwErTyUiOp123!	Long and complex
c@rP3d!EmIsN0w	Passphrase-style
a1B2c3D4e5F6!@	Random mix

We are going to check this passwords using different “Password Strength Checker”. So the results are as follows:

Talking of a password – “Hello@123” (Using <https://www.security.org/how-secure-is-my-password/> this link)



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Now, using <https://passwordmeter.com/> we got the result for password: “hello123”

The Password Meter

Test Your Password

Password:

Hide: ☐

Score: 22%

Complexity: Weak

Minimum Requirements:

- Minimum 8 characters in length
- Contains 3/4 of the following items:
 - Uppercase Letters
 - Lowercase Letters
 - Numbers
 - Symbols

Additions	Type	Rule	Count	Points
Number of Characters	Flat	$+(n^4)$	8	+ 32
Uppercase Letters	Conditional	$+(16n-n^2)^2$	0	0
Lowercase Letters	Conditional	$+(16n-n)^2$	0	+ 6
Numbers	Conditional	$+(n^4)$	1	+ 12
Symbols	Flat	$+(n^6)$	0	0
Mixed Numbers or Symbols	Flat	$+(n^2)$	2	+ 4
Requirements	Flat	$+(n^2)$	1	0

Deductions	Type	Rule	Count	Points
Letters Only	Flat	$-n$	0	0
Numbers Only	Flat	$-n$	0	0
Repeat Characters (Case insensitive)	Conditional	-	2	- 2
Consecutive Uppercase Letters	Flat	$-(n^2)$	0	0

Also using <https://password.kaspersky.com/> we got the following result for “c@rP3d!EmIsN0w”

kaspersky password checker

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](#)

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

Time to change your password

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

[Generate a secure one?](#)

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We also have comparison table from multiple testings:

Password	Strength	Crack Time	Tool Used	Notes
hello123	Weak	Instant	Kaspersky	Too short, common pattern
Hello@123	Medium	3 hours	passwordmeter	Better, but not unique
c@rP3d!EmIsN0w	Strong	200 Million Years	security.org	Strong symbols and length