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)

Now, using https://passwordmeter.com/ we got the result for password: "hello123"

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

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