Task 6: Create a Strong Password and Evaluate Its Strength								
<b>6</b> Objective	:							
To understand what makes a password strong and evaluate its strength using online password strength checkers.								
🌠 Tools Use	d:							
Password Me	ter							
Security.org P	assword Strer	ngth Tes	st					
Password	s Created & Te	ested:						
Password	Strength Resu	ult	Tool Used	Notes				
123456	Very Weak	Passw	ord Meter	Common pas	ssword; easy to guess			
Hashini@123 Medium Passw symbol, and numbers		ord Meter	Contains uppercase, lowercase,					
H@\$#1N!_S3cuReP@55w0rD Strong Password Meter High complexity; hard to brute-force								

summer2025! lacks randomness	Medium	Security.org	Better than simp	ole passwords bu	t
#L3m0n\$Zebra!9021 types	l Strong Securi	ty.org Long,	random, and inc	ludes mixed char	acter
1900					
Best Practices fo	r Strong Passv	vords:			
Use at least 12–16 cl	haracters.				
Mix uppercase, lowe	rcase, digits, a	and special ch	aracters.		
Avoid using personal	Linformation (	hirthdatas na	mas)		
Avoid using personal	t illioittiation (i	on tridates, ria	nesj.		
Don't reuse passwor	rds across diffe	erent sites.			
Consider using pass	phrases (e.g.,	Purple\$Tiger	lumps!99).		
\(  \text{Insights from Eva} \)	aluation:				
Password length sign	nificantly impa	cts strength.			

Adding symbols and numbers boosts complexity.
Dictionary words or predictable patterns make passwords weak.
A password like 123456 was cracked instantly, whereas complex ones showed decades or even centuries of cracking time.
Common Password Attacks (Brief Research Summary):
Brute Force Attack: Trying every possible combination.
Dictionary Attack: Trying commonly used words or leaked passwords.
Passwords with low complexity are easy targets.
E Summary:
Password strength depends on complexity, unpredictability, and length. By using online tools, we evaluated several passwords and learned how even small changes can

significantly improve password security. Strong password habits are essential for protecting accounts and data.