Create a strong password and evaluate its strength:

Objective:

 Understand what makes a password strong and test it against password strength tools

Environment & Prerequisites:

Passwordmeter.com

Observations:

- Passwords with a mix of uppercase, lowercase, numbers, and symbols scored higher in strength tests.
- Longer passwords were significantly stronger and more secure.
- Simple or common passwords (like password) were rated very weak and vulnerable to attacks.
- Passphrases are both secure and easy to remember.

Test Your Password		Minimum Requirements		
Password:	8RuTeF0rcE@Tt@cK	Minimum 8 characters in length		
Hide:		 Contains 3/4 of the following items: Uppercase Letters 		
Score:	100%	- Lowercase Letters - Numbers		
Complexity:	Very Strong	- Symbols		

Additions		Туре	Rate	Count	Bonus
3	Number of Characters	Flat	+(n*4)	16	+ 64
3	Uppercase Letters	Cond/Incr	+((len-n)*2)	6	+ 20
3	Lowercase Letters	Cond/Incr	+((len-n)*2)	6	+ 20
3	Numbers	Cond	+(n*4)	2	+ 8
3	Symbols	Flat	+(n*6)	2	+ 12
3	Middle Numbers or Symbols	Flat	+(n*2)	3	+ 6
3	Requirements	Flat	+(n*2)	5	+ 10
De	ductions				
②	Letters Only	Flat	-n	0	0
②	Numbers Only	Flat	-n	0	0
0	Repeat Characters (Case Insensitive)	Comp	-	6	- 1
②	Consecutive Uppercase Letters	Flat	-(n*2)	0	0
0	Consecutive Lowercase Letters	Flat	-(n*2)	1	- 2
②	Consecutive Numbers	Flat	-(n*2)	0	0
②	Sequential Letters (3+)	Flat	-(n*3)	0	0
②	Sequential Numbers (3+)	Flat	-(n*3)	0	0
②	Sequential Symbols (3+)	Flat	-(n*3)	0	0

Test Your Password		Minimum Requirements		
Password:	password	Minimum 8 characters in length Contains 3/4 of the following Harney		
Hide:		 Contains 3/4 of the following items: Uppercase Letters 		
Score:	8%	- Lowercase Letters - Numbers		
Complexity:	Very Weak	- Symbols		

Add	ditions	Туре	Rate	Count	Bonus
②	Number of Characters	Flat	+(n*4)	8	+ 32
8	Uppercase Letters	Cond/Incr	+((len-n)*2)	0	0
3	Lowercase Letters	Cond/Incr	+((len-n)*2)	8	0
8	Numbers	Cond	+(n*4)	0	0
8	Symbols	Flat	+(n*6)	0	0
8	Middle Numbers or Symbols	Flat	+(n*2)	0	0
8	Requirements	Flat	+(n*2)	2	0
De	ductions				
0	Letters Only	Flat	-n	8	- 8
②	Numbers Only	Flat	-n	0	0
<u>(l)</u>	Repeat Characters (Case Insensitive)	Comp	-	2	- 2
②	Consecutive Uppercase Letters	Flat	-(n*2)	0	0
<u>(l)</u>	Consecutive Lowercase Letters	Flat	-(n*2)	7	- 14
②	Consecutive Numbers	Flat	-(n*2)	0	0
②	Sequential Letters (3+)	Flat	-(n*3)	0	0
②	Sequential Numbers (3+)	Flat	-(n*3)	0	0
②	Sequential Symbols (3+)	Flat	-(n*3)	0	0

Test Your Password		Minimum Requirements		
Password:	Cyber\$eCur1Ty	Minimum 8 characters in length Contains 2/4 of the following items:		
Hide:		 Contains 3/4 of the following items: Uppercase Letters 		
Score:	97%	Lowercase LettersNumbers		
Complexity:	Very Strong	- Symbols		

Add	ditions	Туре	Rate	Count	Bonus		
3	Number of Characters	Flat	+(n*4)	13	+ 52		
3	Uppercase Letters	Cond/Incr	+((len-n)*2)	3	+ 20		
3	Lowercase Letters	Cond/Incr	+((len-n)*2)	8	+ 10		
②	Numbers	Cond	+(n*4)	1	+ 4		
	Symbols	Flat	+(n*6)	1	+ 6		
3	Middle Numbers or Symbols	Flat	+(n*2)	2	+ 4		
3	Requirements	Flat	+(n*2)	5	+ 10		
De	Deductions						
	Letters Only	Flat	-n	0	0		
Ø	Numbers Only	Flat	-n	0	0		
0	Repeat Characters (Case Insensitive)	Comp	-	8	- 1		
②	Consecutive Uppercase Letters	Flat	-(n*2)	0	0		
0	Consecutive Lowercase Letters	Flat	-(n*2)	4	- 8		