

Date: 03.06.25	Task 6
	Create a Strong Password and Evaluate Its Strength.

The following are the password I tried:

1.

Test Your Password		Minimum Requirements
Password:	<input type="text" value="abcdefgh"/>	<ul style="list-style-type: none"> <li>Minimum 8 characters in length</li> <li>Contains 3/4 of the following items: <ul style="list-style-type: none"> <li>- Uppercase Letters</li> <li>- Lowercase Letters</li> <li>- Numbers</li> <li>- Symbols</li> </ul> </li> </ul>
Hide:	<input type="checkbox"/>	
Score:	<div><div>0%</div></div>	
Complexity:	Very Weak	

The password is the worst one because it has only alphabets and it has a pattern in it. There is no variation In the case of alphabets nor does it have any numbers or special characters.

2.

Test Your Password	
Password:	<input type="text" value="12345678"/>
Hide:	<input type="checkbox"/>
Score:	<div><div>4%</div></div>
Complexity:	Very Weak

This password is weak as it has only numbers and there is a pattern in it. There are no alphabets nor does it have any numbers or special characters.

3.

Test Your Password	
Password:	<input type="text" value="bookle"/>
Hide:	<input type="checkbox"/>
Score:	<div><div>6%</div></div>
Complexity:	Very Weak

This password is weak as it has only alphabets. But it is better than the first two passwords as it doesn't have a clear pattern in it. Still, is no variation in the case of alphabets nor there are numbers or special characters.

4.

Test Your Password	
Password:	<input type="text" value="Helloworld"/>
Hide:	<input type="checkbox"/>
Score:	<div><div>33%</div></div>
Complexity:	Weak

This password is weak as it has only alphabets. But it is better than the previous one because it has a capital letter. Still, it doesn't have numbers or special characters.

5.

Test Your Password	
Password:	<input type="text" value="helloWorld"/>
Hide:	<input type="checkbox"/>
Score:	<div><div>35%</div></div>
Complexity:	Weak

This password is weak as it has only alphabets. But it is better than the previous one because it doesn't have the capital letter in the starting of the password itself. Still, it doesn't have numbers or special characters.

6.

Test Your Password	
Password:	<input type="text" value="Helloworld123"/>
Hide:	<input type="checkbox"/>
Score:	<div><div>84%</div></div>
Complexity:	Very Strong

This password is strong as it has a mix of lower and upper case alphabets along with numbers. Still, it doesn't have any special characters. Also the words used in are words present in dictionary, so it still does have a recognizable pattern.

7.

Test Your Password	
Password:	!@#\$%^&*)
Hide:	<input type="checkbox"/>
Score:	86%
Complexity:	Very Strong

This password is strong as it has many special characters. Still, it doesn't have alphabets or numbers.

8.

Test Your Password		Minimum Requirements	
Password:	V8@k&Ha6N^	<ul style="list-style-type: none"> <li>Minimum 8 characters in length</li> <li>Contains 3/4 of the following items:               <ul style="list-style-type: none"> <li>Uppercase Letters</li> <li>Lowercase Letters</li> <li>Numbers</li> <li>Symbols</li> </ul> </li> </ul>	
Hide:	<input type="checkbox"/>		
Score:	100%		
Complexity:	Very Strong		

  

Additions		Type	Rate	Count	Bonus
⚙️	Number of Characters	Flat	$+(n*4)$	10	+ 40
⚙️	Uppercase Letters	Cond/Incr	$+(len-n)*2$	3	+ 14
⚙️	Lowercase Letters	Cond/Incr	$+(len-n)*2$	2	+ 16
⚙️	Numbers	Cond	$+(n*4)$	2	+ 8
⚙️	Symbols	Flat	$+(n*6)$	3	+ 18
⚙️	Middle Numbers or Symbols	Flat	$+(n*2)$	4	+ 8
⚙️	Requirements	Flat	$+(n*2)$	5	+ 10

  

Deductions					
✅	Letters Only	Flat	$-n$	0	0
✅	Numbers Only	Flat	$-n$	0	0
✅	Repeat Characters (Case Insensitive)	Comp	-	0	0
✅	Consecutive Uppercase Letters	Flat	$-(n*2)$	0	0
✅	Consecutive Lowercase Letters	Flat	$-(n*2)$	0	0
✅	Consecutive Numbers	Flat	$-(n*2)$	0	0
✅	Sequential Letters (3+)	Flat	$-(n*3)$	0	0
✅	Sequential Numbers (3+)	Flat	$-(n*3)$	0	0
✅	Sequential Symbols (3+)	Flat	$-(n*3)$	0	0

This is the strongest password compared to all other passwords shown above. It meets all the conditions: has both lower and upper case alphabets, numbers, special characters, no repetition of alphabet case nearby.