Annabel Hartmann

Mr. Tanner

AP Computer Science

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1. List your two memorable passwords created for this assignment and what they stand for.

Two memorable passwords created for this assignment are slYpaxrKD and XVS20. The first one was memorable it looks like a username of someone off of a cringe worthy website or some little kids name on Minecraft. The second one was memorable because of the fact that it looks like the name of some cool gun in a video game!

1. In your opinion, are memorable or random passwords better? Explain your answer.

I believe that it depends on the situation but mostly a mix of both. I feel as though your passwords shouldn’t be so random that each time you try to log in you have to do a password recovery, however at the same time it shouldn’t be so memorable that your friend could guess it. For example you could do a password that is very in the moment, memorable but random since it is in the moment. However if you are doing a password for your bank account then maybe lean towards a bit more memorable but maybe a lesser known memorable password (lesser known by other possible people). Like where you met your first love, or the year of when you got your first pet. It really depends on the situation/importance but can still be a balance of both.

3. Highlight each of the following that apply to you.

* Have you told anyone your password?

Yes, I’ve told my parents the password to my email and Facebook so they could have it!

* Is your password written down somewhere?

Yes I do!

* Are you still using the default password for any accounts (e.g. password, student, your username, etc.)?

Yes for school related accounts that I have, I have the default password that the school gives me unless that doesn’t count, if it doesn’t then no.

* Do you use the same password for multiple accounts?

Shamefully yes it’s hard to come up with some sometimes, I don’t like using generators for my passwords.

* Is your password more than 6 months old?

On some accounts yes, however the ones that aren’t that important to me are way older than 6 months.

* Does your password only contain letters?

None of my passwords only contain letters.

* Is your password less than eight characters long?

None of the passwords that I use are less than eight characters long.

* Does your password contain any recognizable words?

Yes they do.

* Does your password contain the name of a pet, friend, or relative?

One of my passwords yes, it has a name under that subject.

4. Fill-in the following table for each of your randomly created passwords.

Since the link in the assessment didn’t work I used this: https://howsecureismypassword.net/

|  |  |  |  |
| --- | --- | --- | --- |
| **Menu Selection** | **Password Length** | **Password** | **Strength** |
| 1 | 3 | vyd | Weak (Time to solve by computer: 400 Nanoseconds) |
| 1 | 13 | bqkfcdltizvhx | Medium (Time to solve by computer: 2 Years) |  |  |
| 2 | 6 | uGCxts | Weak (Time to solve by computer: 500 Milliseconds) |
| 2 | 9 | slYpaxrKD | Weak (Time to solve by computer: 19 Hours) |
| 3 | 12 | 356l94O66N2V | Strong (Time to solve by computer: 3,000 Years) |
| 3 | 5 | XVS20 | Weak (Time to solve by computer: 2 Milliseconds) |
| 4 | 7 | aZ8)NhT | Weak (Time to solve by computer: 7 Minutes) |
| 4 | 14 | HH,wB@aUOae^8X | Best (Time to solve by computer: 4 Billion Years) |

Weakest: vyd

What is the effect of length on password security?

The length affected the security by making it weaker because the length of this password is only 3 characters long.

How is security affected by using multiple character sets? How strong is your password?

Multiple character sets affect the security by giving the password possibly more strength. My password is not that strong.

Strongest: HH,wB@aUOae^8X

What is the effect of length on password security?

The length on the password affects the security by making the password stronger.

How is security affected by using multiple character sets? How strong is your password?

Multiple character sets affect the security by making this password more random and less likely to be figured out by outsiders. My password is strong.