### **Question 1**

Prompt: Pick a family member or a friend and record a pitch for why they should use a password manager. You have lots of flexibility in how you approach this video. For example, you can explain the dangers of weak passwords and password reuse.

Ok Dad, it's time for a password intervention. I can’t count how many times I’ve had to reset your passwords, so I’m going to try and convince you why its time to use a password manager.

1.) Protects you against Credential stuffing & Mangling attacks.

I know you like to use the same password for multiple accounts, but this is a huge problem because if any of those accounts were to be compromised, it could lead to a potential credential stuffing attack against you. Credential stuffing is where an attacker will attempt to use your leaked password at as many websites as possible, hoping to access just one. Even if your passwords are slightly different, an attacker can do something called Mangling, which is attempting different combinations of your password.

A password manager will protect you against this by generating a different random password for each account that is not only strong, but one you never have to worry about remembering.

Which brings us to the next benefit.

2.) One Password to rule them all.

All those calls for me to come by and help reset multiple passwords because you forgot them? A thing of the past. If you use a password manager, you only need to remember the one pimrary password that unlocks it. All your other passwords are stored within it, hence the name password manager.

3.) Compromise Warnings

When websites get comprised and account information gets stolen, attackers normally sell it on the internet. Over time this information becomes public, and password managers can check against these databases of popular breaches and tell you if any of your passwords were found in them. If any passwords were found, the password manager will notify you to change your password for a given account, helping you stay proactive against possible attacks.

Password Mangers can also notify you when any account and password that is stored in it appears in a public password leak database. This gives you the opportunity to be proactive and change passwords before your accounts are compromised.

All these things that a password manager does will help make your digital life more convenient, and most importantly, safe.

### **Question 2**

Prompt: For that same family member or friend, record a tutorial on how to use a password manager. You should go over the features and the basic operation of the password manager. You choose which password manager to use, but it should be a real piece of software.

Well dad now that I've convinced you, I am going to show you how to use Apple’s Password Manager called iCloud Keychain.

iCloud Keychain comes installed on every Apple Device and is a core part of Apple’s password management system. Any account information saved in iCloud Keychain will sync over the web to all other Apple devices you own. So get you started I’m going to show you how to use iCloud keychain with your iPhone.

On the iPhone home screen, you can find the password manager by going into the settings app, and once there scroll down until you see the choice “Passwords”. By pressing the that, you will enter iCloud Keychain.

Knowing you have an iPhone with Face ID, when you access iCloud Keychain it will prompt you to scan your face for biometric authentication, but if for some reason the camera does not work, your Apple ID password will be required to get access, this is your primary password for all others.

Once in iCloud Keychain, press the + button in the top right and that will bring us to a new screen where we can add an account.

Enter the website name, username, and for the password, you'll notice a suggested strong, randomly generated password at the top of the keyboard. Press that to fill it in. Press the done button at the top and we’re ready to see convience in action.

When you visit the website to log in, you’ll notice your new saved password above the keybaord, tap it to fill in your login information. The days of having to remember a password for every website or app you want to use are over.