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Activity 1 of 2: (50 marks = 4 × 12.5)

1. Passphrase Manager

➔ Advantages

There are a lot of advantages like :

- The feature of auto login becomes activated so after signing up with the Passphrase Manager the process of log in becomes so easy and hence time saving, since the browser will automatically fill the space for the user.
- The Paraphrase Manager facilitates us to store in other credentials, i.e., additional information like security questions, passcodes, etc.
- The use of this feature, enables the user to log in from several other devices which makes it multi authenticator.

➔ Disadvantages

- The risk of hacking becomes more and more evident with this feature because there is only a single paraphrase, so the complete information can be leaked out with this.
- It is less convenient because the process of auto-login works only on the web-based browsers and application since the extension is installed on the browsers.
- There is a risk to theft and stealing of information of the user, since there is only one master paraphrase, so if in case it gets stolen then it creates a lot of adversities.

2. Passphrase Generator

➔ Advantages

- It secures and provides more security to the password, since the password generator creates a strong password with the combination of random letters and symbols.
- Also, it is not the task of a user to remember these random passwords. Since, the passphrase generator has the feature to remember and fill in the passphrase when necessary.

➔ Disadvantages

- If the user forgets the password for the single passphrase then it loses the privilege to access the other passphrases of other accounts. So, there is a risk of single point of failure.
- It is more of a possibility to get the account hacked because it has a single authentication.

3. Use single sign on where possible

➔ Advantages

It is more convenient for the users to use this feature, to sign in to different accounts on different platforms through the feature of single sign in rather than creating new accounts for every single time.

- It actually reduces us the efforts of remembering the password for the accounts every single time.
- So, using this actually increase us the time of log in to the different accounts.

➔ Disadvantages

- However, signing in to a lot of sites through this feature makes our account more vulnerable to the internet and hence, more chances to get hacked.
- If data from a single account is hacked then all the information from the linked sites and accounts would also be vulnerable.

4. What method(s) do you use to safeguard passwords and your digital life?

➔ I use a password generator software called Bitwarden to keep my passwords safe and secure. The software is actually free and open-source available to everyone and it makes our life so easy and efficient in all terms. Basically, all I have to do is store and remember a single password which usually is strong and complex which makes it difficult to guess for everyone, to login to the manager itself.

Why is that (or why will that be) the best method for you?

➔ I think this is the best method or way for me, since I am very bad at remember things and actually this software stores and creates the strong password, on behalf of us so we don't need to remember the same password, every single time. Moreover, it saves us a lot of time, because it has the feature of autofill of the passcodes, whenever the user tries to login to the account. We can also set up two steps verification to authenticate the access to the Password Manager.

Why won't you use other methods?

➔ I don't consider because the Password Manager is the best way and convenient for me, because it offers almost all the features we seek from a Password Manager and also it is end-to-end encrypted. There have been many cases of decrease in the real-life incidents of the data breaches by using this feature. That's why, I prefer to stick with this software or method.

Activity 2 of 2: (50 marks for 250+ words)

➔ What is the price of free?

To start with, even though social media sites are free to sign up with, they come with huge risk. To elaborate, we actually have been given much freedom on these platforms, to upload and update, our private information on these sites, open to everyone. All kind of private information of the people is openly available to each and everyone on the internet. Hence, tricksters can use these kind of private information against ourselves and can blackmail us and cyberbully us in all the terms. Moreover, many companies take this as an opportunity to use these information and sell it to other third-party companies just for economical purposes.

Social Media sites also always gives us the notifications for switching the platform to the premium version of the social media, since by doing that even though we are given additional features but still they charge us money for that, so these platforms are not completely free, even though they advertise to the users that they are free and opened to everyone. There are several cases of privacy breach and information leaked just for evil purposes. The social media sites are the main root cause for the anxieties among the teenagers, they use such sites to make people around the same age jealous among one other and this leads to mental health issues, by doing so the children consult therapists and this impacts the life of a person, onto two factors. Firstly, by undergoing the therapy with a therapist the victim gives the medic fee, so this impact the victim economically, as well as, the time and health of the people get wasted as well.

Therefore, even though they tell the social media is free but they do cost us more than precious things in our life.