Part A

Ghostery Add-on

Ghostery is a browser add-on which helps you see the trackers that you have on your browser from websites you have visited. Sometimes the websites you visit can add tracking cookies to your browser so that they can see the activity you’ve had and will have for said browser. By using an add-on such as this one, you will be able to keep track of these cookies and destroy them whenever you want. This will increase your privacy and decrease the probability of identifying you through your history and topics that you look up on the internet. Sometimes even the search engine that you use on a daily basis will track your activity. Because of that, you won’t 100% be able to fully remove yourself from their tracking unless you stop using the internet all together. The reason why this tracking is so persistent is because money is being made by predicting your actions online, this way they can recommend you certain products and make as much money as possible by knowing what to sell you.

Along this add-on, I would also add an ad blocker, as these ads can be intrusive and sometimes cause breaches in your security. Some of the popups that are a result of ads can lead you to unsecure websites which can then steal your information.

VPN

Another way of protecting your information online is through the use of 3rd party VPN providers. These commercial VPN’s redirect your network traffic and disguise your computer location. You could be browsing reddit through the network in your local cafe while your computers address is at the other end of the world. These VPN’s can also offer additional encryption on your information as you browse.

Part B

Why deep web?

The name deep web comes from the idea that this portion of the internet is hidden from most search engines, so therefore harder to find, it is ‘deep’ but not completely dark, just under the surface of the regular web. The deep web is harder to reach than the regular web because you need special browsers to access it. Most commercial browsers such as Chrome or Mozilla will not allow you to access such websites. Tor is a website that allows you to access the deep web. The browser masks your IP address, and helps you avoid third-party trackers and unnecessary cookies.

Unlike the dark-web, the deep web is relatively safe to use especially when compared to the dark-web. Considering the fact that the deep web is about 400 times larger than the regular web, It is completely legal to access the deep web as well as the dark web, however, what you do once you get there is what dictates if it would still be legal. When browsing the deep web, you have to be very careful as to what kind of information you’re transferring through the network. A lot of the websites that you visit on the deep web could put your personal information at risk. This can lead to the loss of sensitive bank information or personal data that could be used to identify you.

Part C

See attached for python code.