Vu Do
Week 3

For this assignment I decided to teach two of my fellow library colleagues on what I have learned. I specifically taught two library staff about creating secure passphrases using the Diceware technique, malware and phishing prevention, and HTTPS. Teaching the staff on creating secure random passphrases using the Diceware method was a bit challenging when explaining randomness, probability and the need for long passphrases. The staff members were already aware of the need for secure passwords but haven't heard about using passphrases for passwords and was very eager to learn about creating secure passphrases using the Diceware method. To explain passphrases I employed EEF's explanation which boils down to single passwords are not as secure as long passphrases as computers are now so fast that your single word password can be cracked very quickly. Passwords with special characters, even random ones, can easily be cracked by computers. With passphrases you increase the length of your passwords that allow for greater number of possibilities. A passphrase with six random words from a list is extremely difficult to cracked. Using numbers to explain to concept really drive the point home because it illustrates how long would it take a computer to crack your seven words random passphrase. A seven words passphrase would take million of years for a computer to crack.

After demonstrating to staff on creating secure passphrases with Diceware I talked about malware and phishing prevention and HTTPS. Our Library IT was very proactive about cybersecurity training for staff so most were already familiar with malware and phishing emails. We have a pamphlet about spotting phishing email with cyber hygiene questions when reviewing suspicious emails such as whether the email asks for sensitive information, suspicious looking sender's email address and links, misspelling or bad grammar, and whether images or logos looked distorted. Overall, the staff were fully aware of the various methods and strategies for spotting phishing emails.

Regarding HTTPS one of the staff was not familiar with the protocol and I went over why it is important when using the Internet. HTTPS is a secure version of HTTP, which is a method of ensuring secure communication between a user's browser and a web server. HTTPS can be easily recognized with the green secure lock.

Overall, the entire exercise was a bit challenging when teaching someone about the different privacy and security tools. I would feel more comfortable with teaching if I have more practice and know about the different topics.