Case Exercise 2: The Need for Security

1. Go online and search for information about a commercial off-the-shelf program that had a serious security problem. Describe the problem in a brief paper.

An example of a commercial of the shelf program that had a security problem and most used by users is Microsoft Office suites this software is prone to security problems because Microsoft developed a weak security configuration and because of that hackers can easily take information from the user using these software hackers can take all the information that is being typed by the user in the software.

1. Research 3 recent cyber security incidents. Explain in brief detail what happened and what kind of an attack was it. And also include, why was it attacked and what made the system vulnerable to the attack.
2. UKRAINE POWER GRID ATTACK 2015 - This cyberattack on the Ukrainian power grid made the world fear the Russia. The attack happened because the Prykarpattyaoblenergo control fell victim to a cyber breach. It is said that the system has a lot of security vulnerabilities and because of those vulnerabilities the Russians took advantage of it and made an unexpected attack to Ukraine.
3. WANNACRY RANSOMWARE ATTACK 2017 – The wannacry ransomware is a mawlware that automatically encrypts all of your files and it can only be decrypted if you pay in a certain time this attack was huge and it automatically spread across the networks infecting thousands of computers and demanding for a ransom. Another contributing aspect is that customers did not update their operating systems which made it vulnerable to the malware.
4. Colonial Pipeline Company ransomware 2021 – This cyberattack happened just recently and it disabled the largest petroleum pipeline in America for several days the malware demanded for $4.4 million worth of bitcoin and because of this the company was forced to pay because of the large scale disruption.
5. Go to <https://phishingquiz.withgoogle.com/> and take the phishing quiz.
   1. This exercise will help you understand how phishing attacks can be spotted and assess your ability to recognize credible threats.
   2. Screenshot your result. This is an example.

