Week 1 Reflection

This week marked the beginning of the course and provided a strong foundation in computer security concepts. The lectures introduced key topics such as **computer security fundamentals, the CIA triad (Confidentiality, Integrity, Availability), OSI security architecture, and common security attacks**. Additionally, real-world case studies were discussed to highlight the practical importance of these concepts.

What I Learned

- I developed a clear understanding of the **CIA triad** and how each element (confidentiality, integrity, and availability) is essential for maintaining secure systems.

- The **OSI security architecture** provided insight into how security measures can be applied at different layers of a network, from physical devices to application-level protections.

- Learning about **security attacks** and case studies emphasized the real-world consequences of weak security practices and the importance of proactive defense strategies.

Challenges Faced

- Understanding how security concepts map onto each OSI layer was initially challenging, as it required thinking about abstract layers and their practical implementations.

- Some of the attack types and mitigation strategies were complex, and I needed to carefully analyze the case studies to understand their implications.

Reflection and Personal Growth

- I realized the importance of **thinking like both a defender and an attacker** to anticipate potential threats.

- The course has encouraged me to be more **conscious of security in everyday digital interactions**, even in personal use.

Next Steps

- I plan to **review the OSI model and CIA triad in more depth**, using diagrams to solidify my understanding.

- I aim to **practice applying security measures** in small lab exercises to gain hands-on experience.