

# Homework 01

## ECE 222, Spring 2023

*Due Date: 02/10 11:59 pm (Chicago Time)*

1. (25 points) Define the following terms:
  - a. Gray Hat Hacker
  - b. Trojan Horse
  - c. Layered Security Approach
  - d. Avoidance of Risk
  - e. Social Engineering
2. (25 points) Compare the four **Risk Management** strategies and when they may be used:
3. (25 points) Please explain the following commands, their flags, and their arguments (assume these commands are run as *root*):
  - a. `ls -l /home/root/Downloads`
  - b. `nmap -p 1-1234 -Pn -A 10.10.10.10`
  - c. `cp nmap.txt nmap(1).txt`
  - d. `cat /etc/passwd > users.txt`
  - e. `find / -name passwd`
4. (25 points) Describe the objectives of each of these Kali Linux tools and how you would use them:
  - a. nmap
  - b. Dirbuster
  - c. Burp Suite
  - d. Hashcat
  - e. Metasploit