

# CYSE-270- Linux System For Cybersecurity

## Assignment –10

### Networking Basics - Subnetting (100 points)

Understanding subnetting takes time and practice. Using the methods covered during the class, fill in the following tables for **Network, broadcast, first IP, Last IP and Max. Hosts in the network.**

The column for IP address should be in Decimal format for each, except number of hosts. (Refer to the examples in the slide for week 10-Networking Basics)

#### **Task-A: (50 Points)**

Category	IP Address	Binary Format
Address	192.168.100.4	
Netmask	28	
Network address		
Broadcast address		
First IP		
Last IP		
Maximum host in the network		

#### **Task-B: (50 points)**

Category	IP Address	Binary Format
Address	170.1.0.0	
Netmask	26	
Network address		
Broadcast address		
First IP		
Last IP		
Maximum host in the network		

**Extra Credit (10 points)**

Write a bash script to print out 0~10 in shell scripts by using for loop and while loop, respectively? Please submit the screenshot for the script and its output, both.