

# CENG334

## COMPUTER NETWORKS

### LABORATORY MANUAL IV

**Task 1** – Lets assume you are given the following IPv4 networks; display the steps required for calculation and results if you were to create specified amount of subnets for the networks these IP addresses belong to:

- a) 147.192.0.0/16 – 2 subnets
- b) 186.172.27.0/24 – 4 subnets
- c) 54.76.122.0/26 – 4 subnets
- d) 95.26.0.0/20 – 2 subnets

**Task 2** – Lets assume you are given the following IPv4 networks; display the steps required for calculation and results if you were to extend the maximum hosts these networks can handle.

- a) 147.192.0.0/16 – 131072 hosts
- b) 186.172.27.0/24 – 1024 hosts
- c) 54.76.122.0/26 – 256 hosts
- d) 95.26.0.0/28 – 64 hosts