## LAB 9

## Task 1:

**Difference Between “Sub-Netting & Super-Netting”, with Example**

**(draw structure in cisco)**

**Subnetting** is the procedure to divide the network into sub-networks or small networks, these smaller networks are known as subnets. The [subnet](https://www.geeksforgeeks.org/introduction-to-subnetting/)is also defined as an internal address made up of a combination of a small network and host segments. In a subnet, a few bits from the host portion are used to design small-sized subnetworks from the original network. In subnetting, network bits are converted into host bits.

**Supernetting** is the procedure to combine small networks into larger spaces. In subnetting, Network addresses’ bits are increased. on the other hand, in supernetting, Host addresses’ bits are increased. Subnetting is implemented via Variable-length subnet masking, While super netting is implemented via Classless interdomain routing.