## Assignment - 3

Title: Subnetting

Problem Statement!
Write a program to demonstrate
subnetting and find subnet masks

· To find subnet mosks.

Butcomes:

Students should be able to demonstrate

Subnetting and find subnet masks

Requirements:

TDX

Subnetting:

Subnetting is when you enter a leage with something else, known ds subtenant, for an apartment of any other property. Subnetting is ussually used when you are renting a property. Subnetting lets you essentially act as sort of mini - landlord for the preperty.



Metmask:
A netmask is a 32-bit mask used to divide an IP address into subnets hosts. In network, oz-bits are eq. In 255. 255. 255. 8, the 02 255 here assigned as broad cust address and netmask's address. class Medmask # of Hosts class A 8 126 1677 126 16,777,214 elass B 16 16,382 65,534 class ( 24 2,097,150 · 254

Subnet masks:

It is a mask of what subnet an IP address belongs to An address has 2 compohents I network

address and host address.

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TP 3, 150. 245. 017.009

Network address: 150.215.

Host address: 017.009



Subnet masks 255.255.200 111,1111 1111 1111011 11110 IP addr. 150.215.017.009 100101110,11010111 000 Subnet addr. 150.215.016.000 10010110.11010111

Conclusion:

Thus we have successfully implemented and demonstrated subnetting and calculated the subnet mask.