## Assignment -3.

- sind the subnet masks.
- \* objectives: i) To understand structure of 20 addresses and
  - (i) To understand concept of susnesting & weate subnet of given to address.
- requirements: windows 10, 64-5it, Intel it processore, intellit

Theory:

susnetting:

Subnetting is when you enter a rease with someone este, known as a subnect face an apparetment or other preopering which you arready went subnetting is usually used when you are renting the tease is not don't woulk want to spend money to continue wenting the preopering which you don't inhabit swinething set as a solet of minuareleand for propering you were tenting to keep yourself from playing you were tenting you are not using

retwork?

TP address into resness & specify the nervous available, hoots. In a network thoo sits are always automatically assigned fore eg. in 205.205.205.0 "O" is the

arrighed to connot be used.

its snavy connection.

retmark; 201 201 201 201

Binary; 1111111 1111111 1111111

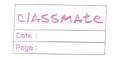
retwork length 8 16 24 32

you to determine netmark dength . A commonly world netmark is a 24-bit network as seen below

Netmark 1974 8 16 24 ---

uning a system surmance, the network would be capable of 2-097 100 networks on 104 different hosts with an se rearge of 192.1.0. X to 205.105.100 which is usually more than enough address for one networks. A simple boremula can be used to determine the capable amount of networks a network of networks a

2 ^ ( retmark ength - 77 of aired segment) -2



netmark of not not not because of the brevadicant of new addresses that are already being used.

could be 2 ( Frozeros) -2

Below is a breeakdown of each of the commonly wed network datter.

| class.  | Netnance congra | # 07    | # 01     | Netmark    |
|---------|-----------------|---------|----------|------------|
|         | <b>0</b> * *    | newserk | horr     |            |
| elero A | 8               | 126     | 16777214 | 201.0.0,0  |
| class B | ( <b>G</b>      | 169382  | 65534    | 25.205.0.0 |
| day c   | 24              | 2097153 | 254      | 201,200,00 |

Summer marks:

Subnet mark is a mark and to determine what subnet an TP address belongs to an TP address how 2 components. The network address and host address. For ey. consider IP address [50.215.017.009. Atsummy this is a part of data B of network, the stress 2 numbers (150., 145) represent the data B network address, and the use recover other 2 humbers (017, 009). Identify a pareticular hour on this number.

the first white of bost address are for identifying the subject.

the subnet mask is network address plus me bits werend both identifying the subnetwork by convention, the bits pose network address are set to I though it would also coulk if the bits averse set exactly as in remove address.

addresses belong to by personeming a situation of the mark because can on the mark of the address.

The respect is subnet address.

subnet mark 205. 2050 240,000

11111111 . 11111111 . 1110000 . 0000000

TP address. 150: 215-17.9

1001010 , 11010111 , 00010001 ,0000100/

Summet mays 100. 215.016.000

1001010, 110101111, 00010000, 00000000

the subject address therefore is 150,215,016,000

conduction !

demonstructic subnetting and find the subnet masks.