**Nama : Hanii Mustofa**

**Identifikasi Class, Alamat Network, Alamat Broadcast, First address, Last address, dari Alamat IP berikut:**

1. 192.168.200.4/24

Kategori Class C memiliki 3 oktat

Biner : 11000000.10101000.11001000.00000100

Subnet mask : 255.255.255.0

Network Address: 192.168.200.0 /24

.00000000

First Adress : 192.168.200.1 /24

.00000001

Last Address : 192.168.200.254 /24

.11111110

Broadcast Address: 192.168.200.255 /24

.11111111

1. 172.12.50.5/16

Kategori Class B memiliki 2 oktat

Biner : 10101100.000011000.00110010.00000101

Subnet mask : 255.255.0.0

Network Address: 172.12.0.0 /16

.00000000

First Adress : 172.12.0.1 /16

.00000001

Last Address : 172.12.0.254 /16

.11111110

Broadcast Address: 172.12.0.255 /16

.11111111

1. 12.1.1.100 255.0.0.0

Kategori Class A memiliki 1 oktat

Biner : 00001100.00000001.00000001.01100100

Subnet mask : 255.0.0.0

Network Address: 12.0.0.0 /8

.00000000

First Adress : 12.1.1.1 /8

.00000001

Last Address : 12.0.0.254 /8

.11111110

Broadcast Address: 12.0.0.255 /8

.11111111

5.2 TUGAS Subnetting

IP Address awal : 192.168.100.0/24

Dibagi menjadi 2 buah jaringan

192.168.100.0

Kategori Kelas C

Meminjam 1 bit, 21 = 2

HostID baru adalah 8 bit – 1 bit = 7 bit hostID

Jadi 27 = 128

Kelompok 1: 192.168.100.0 /25

NA = 192.168.100.0 /25

FH = 192.168.100.1

LH = 192.168.100.126

BN = 192.168.100.127

SM = 255.255.255.128

Kelompok 2:

NA = 192.168.100.128 /25

FH = 192.168.100.128

LH = 192.168.100.254

BN = 192.168.100.255

SM = 255.255.255.128