NAMA : BAITY JANNATIKA

NIM : L200180211

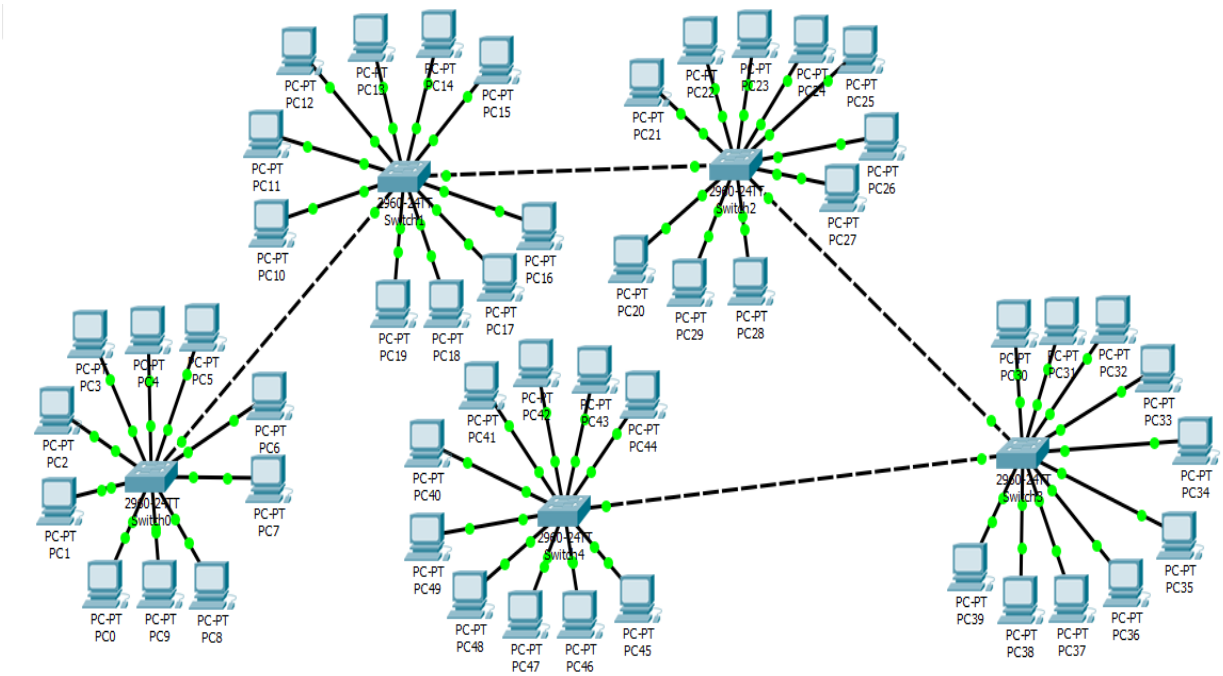
KELAS : E / PRAKTIKUM JARINGAN KOMPUTER

MODUL 3

SUBNETTING

Tugas Modul

1. Diketahui sebuah supermarket akan memasang sebuah jaringan komputer yang menggunakan network ID 202.155.19.0 dengan subnet mask default 255.255.255.0. supermarket tersebut mempunyai 5 divisi dan masing-masing divisi dapat berisi hingga 25 komputer.
2. Tugas anda adalah :
   a. Buatlah desain jaringan tersebut dengan Packet Tracer
   b. Gunakan switch seri generic dan gunakan juga 10 (sepuluh) unit PC

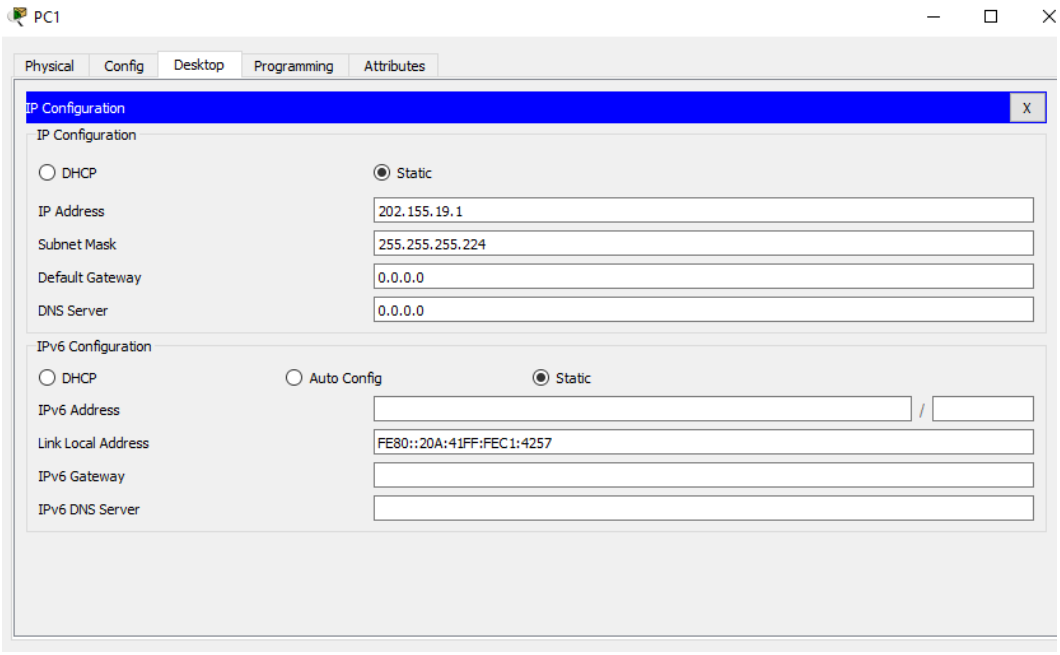


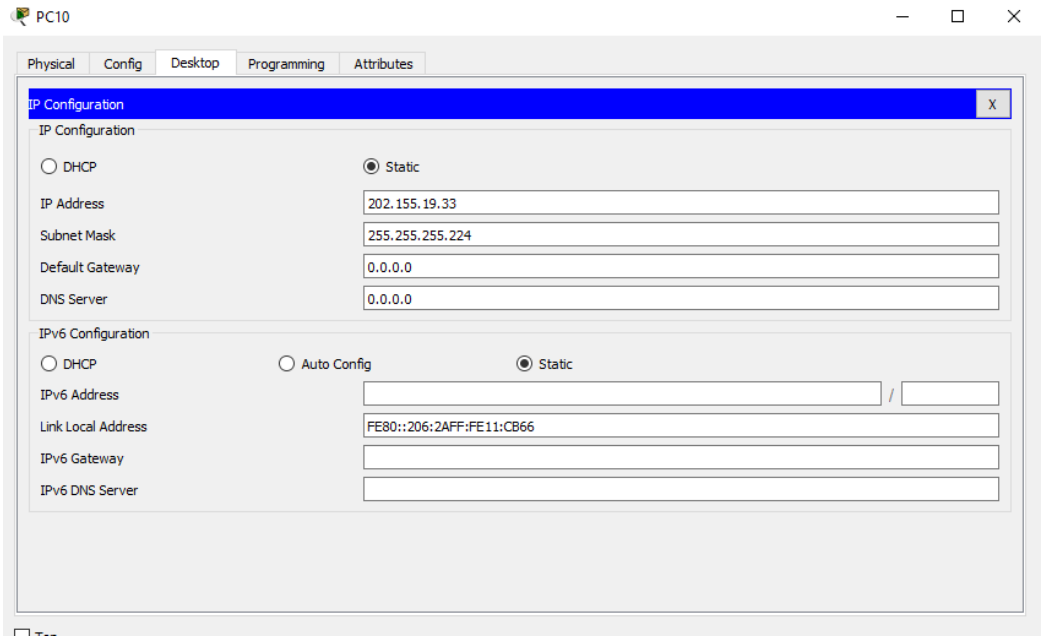
c. Tentukan subnet mask yang harus digunakan pada semua komputer tersebut
5 subnet, jadi x=3 jadi ada 3 bit 1 dan y=5 jadi ada 5 bit 0, karena dalam satu blok terdapat 8 bit

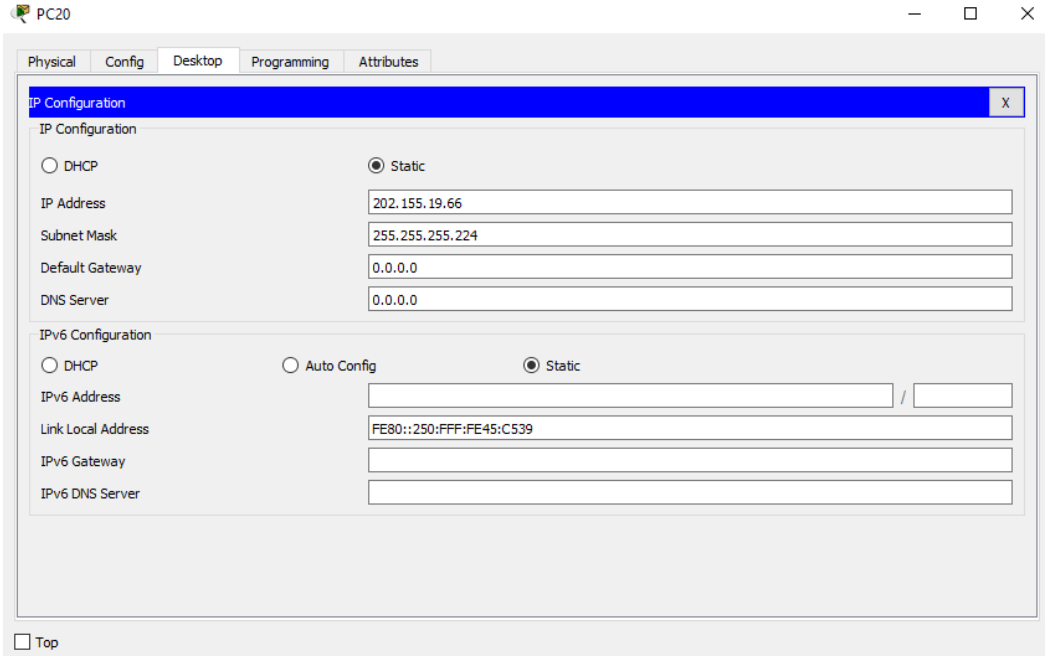
11111111.11111111.11111111.11100000
255 . 255 . 255 . 224

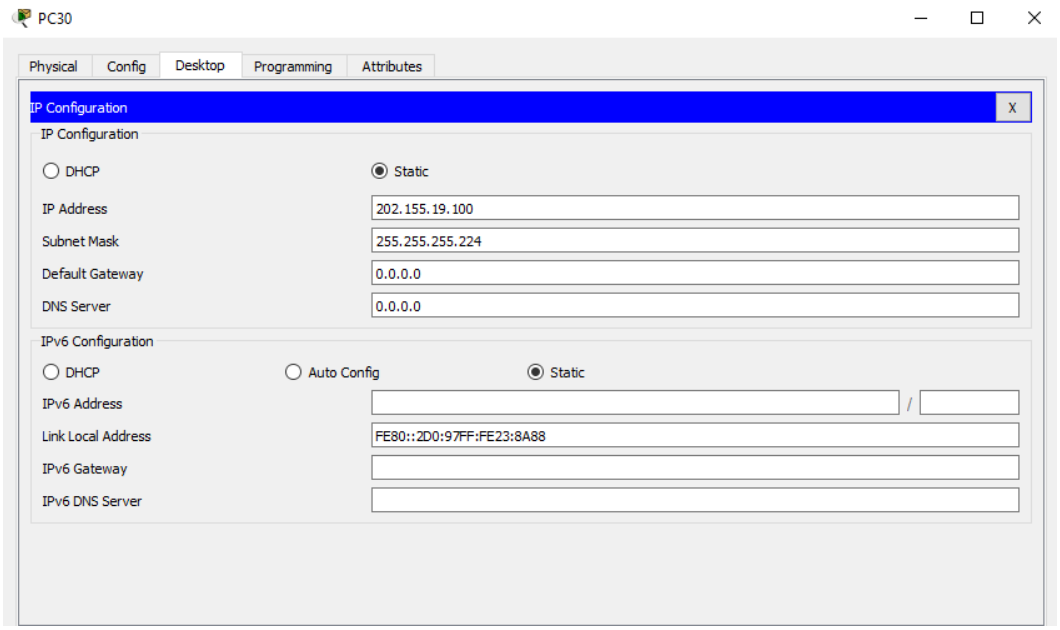
d. Tentukan subnet address yang terbentuk
256-224=32
Jadi ada 32 IP Address
- 202.155.19.0
- 202.155.19.32
- 202.155.19.64
- 202.155.19.98
- 202.155.19.130

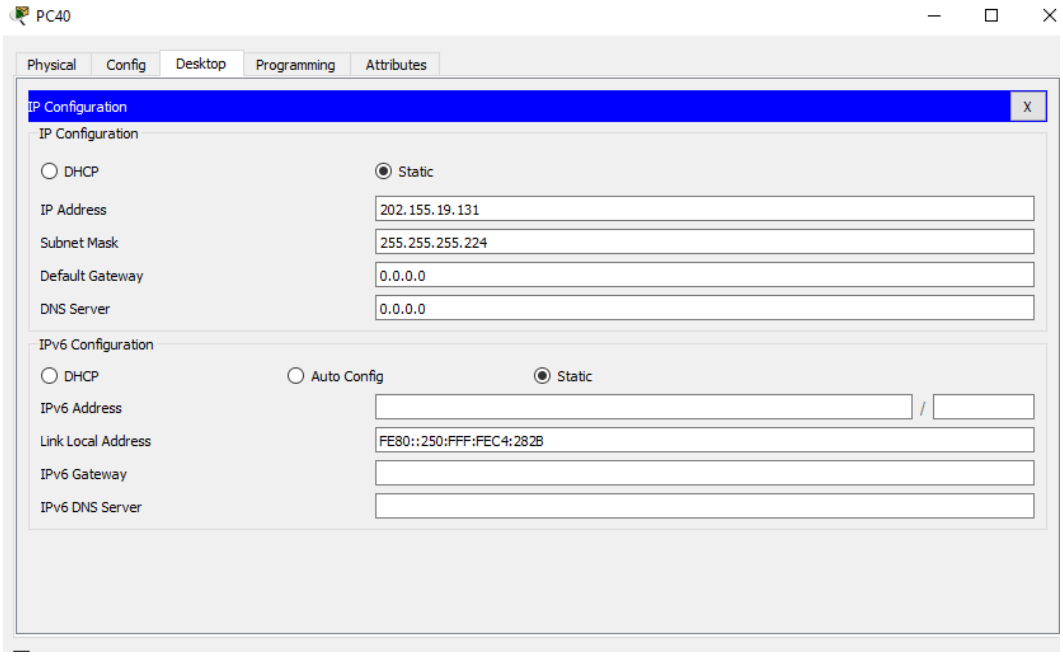
Pengisian IP Address




PC10
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
202.155.19.33
Subnet Mask
255.255.255.224
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::206:2AFF:FE11:CB66
IPv6 Gateway
IPv6 DNS Server

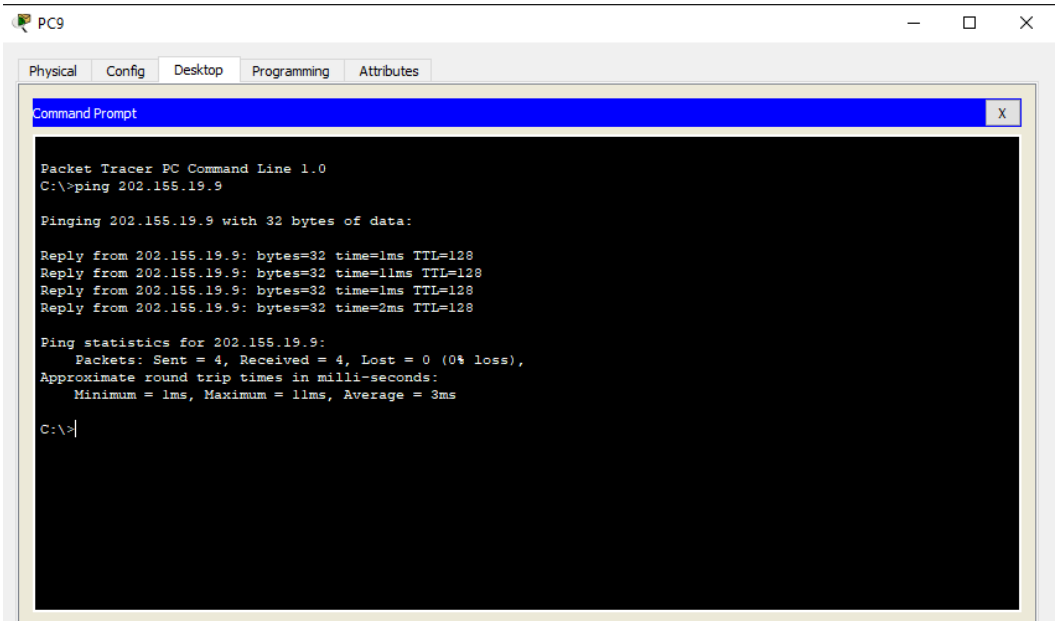

PC20
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
202.155.19.66
Subnet Mask
255.255.255.224
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::250:FFF:FE45:C539
IPv6 Gateway
IPv6 DNS Server
Top


PC30
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
202.155.19.100
Subnet Mask
255.255.255.224
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::2D0:97FF:FE23:8A88
IPv6 Gateway
IPv6 DNS Server


PC40
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IP Address
202.155.19.131
Subnet Mask
255.255.255.224
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::250:FFF:FEC4:282B
IPv6 Gateway
IPv6 DNS Server

e. Implementasikan menggunakan simulator
f. Lakukan tes koneksi antara komputer-komputer yang ada

1. Ping PC 9 ke PC di divisi 1 **(terhubung dan memberikan respon)**



2. Ping 2 ke PC 36 di divisi 2 **(tidak terhubung karena 1 dan dan divisi 2 berbeda subnet mask nya dengan hasil Request Time Out)**