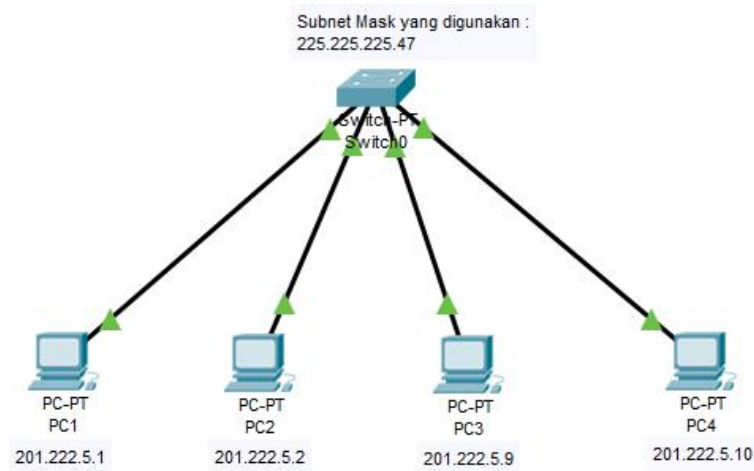Nama : Andika Wirapala Fathin Azfar
NIM   : L200170048
Kelas : A
Modul : 3

MODUL 3

Kegiatan 1. Desain dan Konfigurasi Subnetting

Subnet Mask yang digunakan :
225.225.225.47

A. *Pengaturan Alamat IP*

- PC1

- PC2

- PC3

- PC4

B. *Uji Koneksi Jaringan*
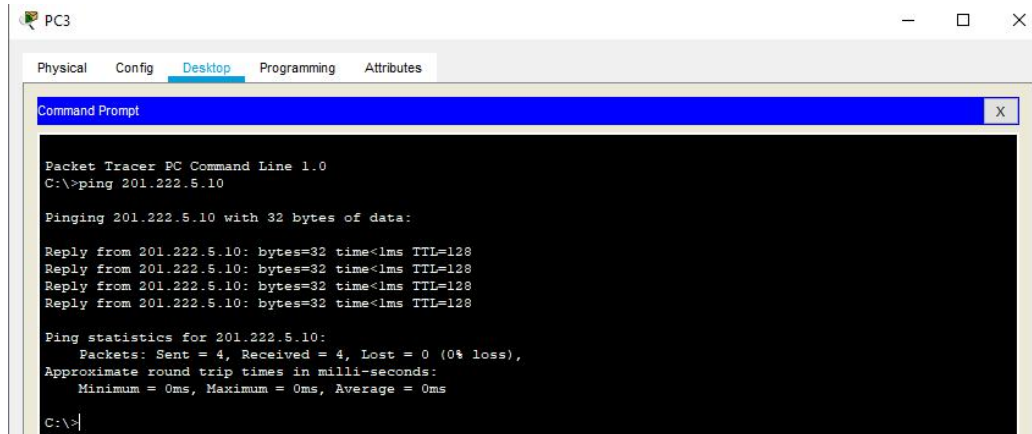
PC1 ke PC2
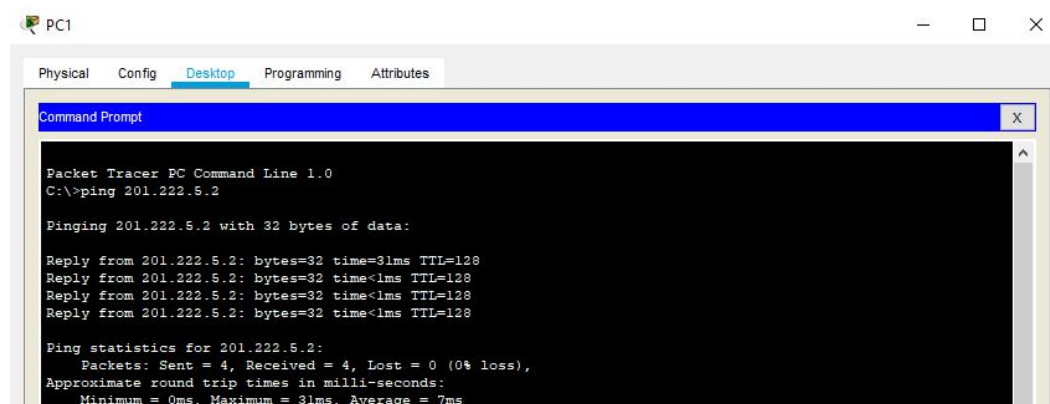
PC2 ke PC3
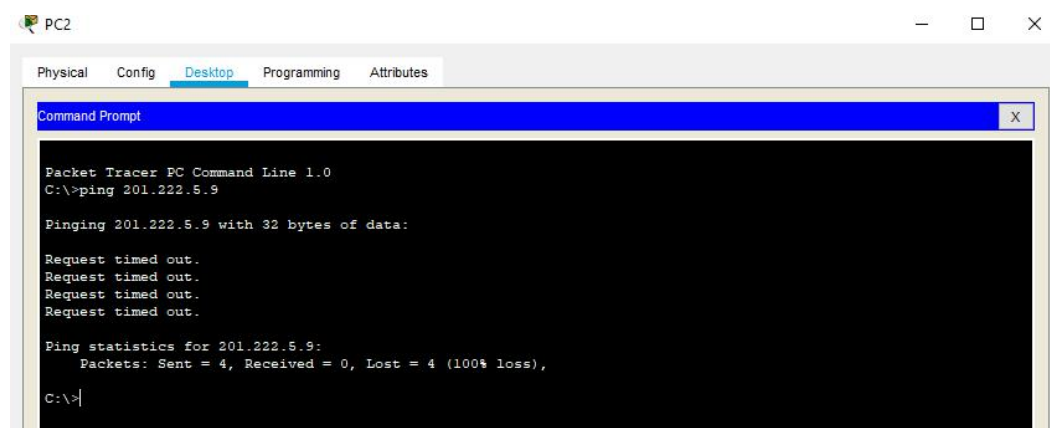
PC3 ke PC4

PC3 window — Command Prompt:

```
Packet Tracer PC Command Line 1.0
C:\>ping 201.222.5.10

Pinging 201.222.5.10 with 32 bytes of data:

Reply from 201.222.5.10: bytes=32 time<1ms TTL=128
Reply from 201.222.5.10: bytes=32 time<1ms TTL=128
Reply from 201.222.5.10: bytes=32 time<1ms TTL=128
Reply from 201.222.5.10: bytes=32 time<1ms TTL=128

Ping statistics for 201.222.5.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```
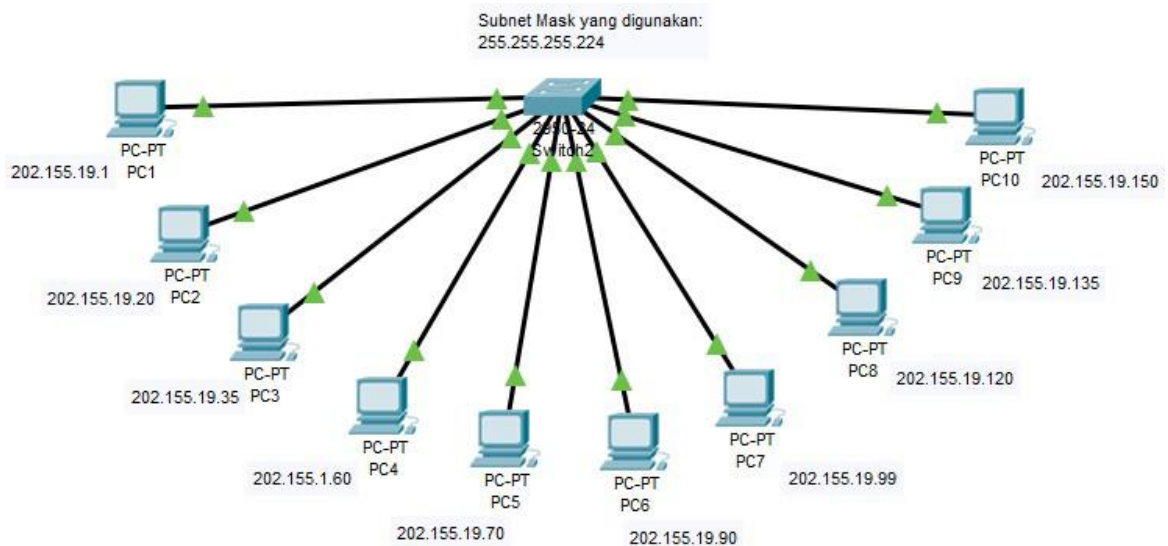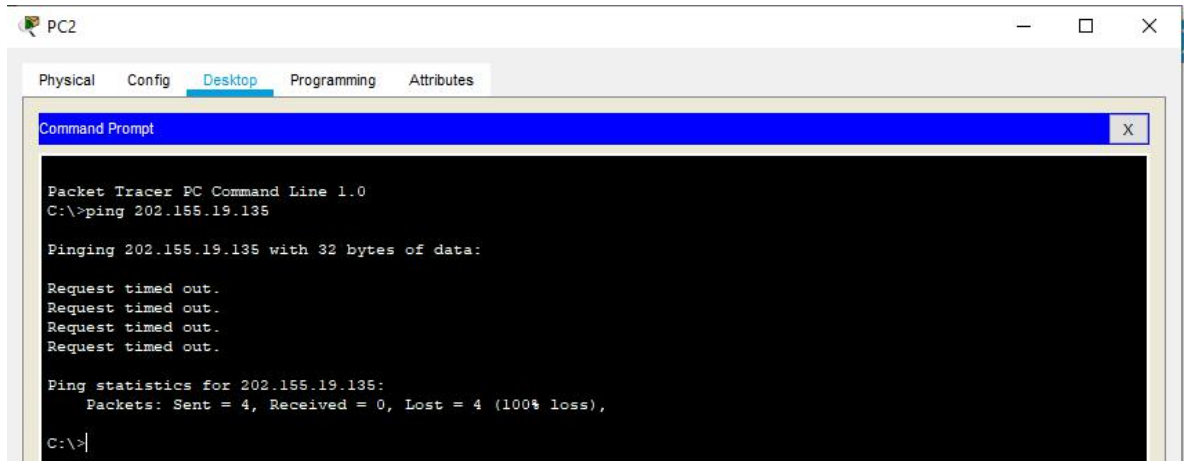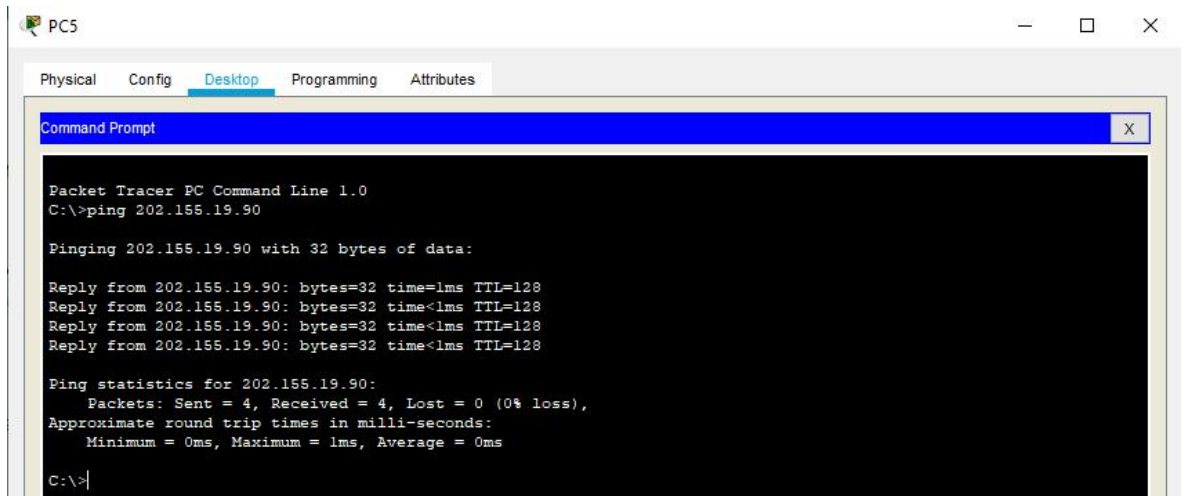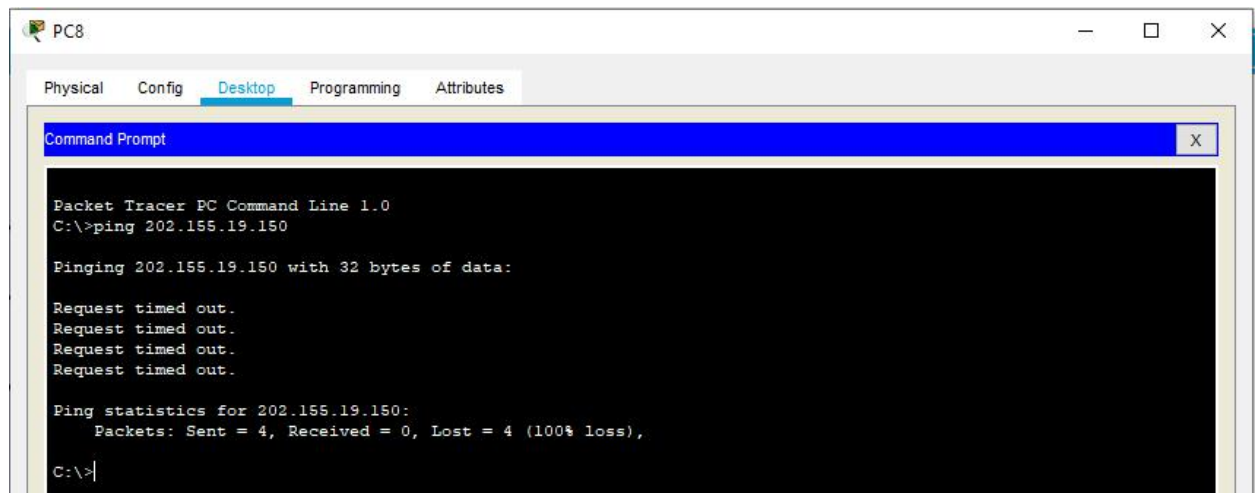
Tugas Modul

1. Desain Rangkaian

2. Subnet Mask yang digunakan yaitu 255.255.255.224
    Didapat dari pengubahan bilangan binner 00000000 pada blok terakir menjadi bilangan biner 1.
    IIIIIIII.IIIIIIII.IIIIIIII.00000000 -> IIIIIIII.IIIIIIII.IIIIIIII.III00000
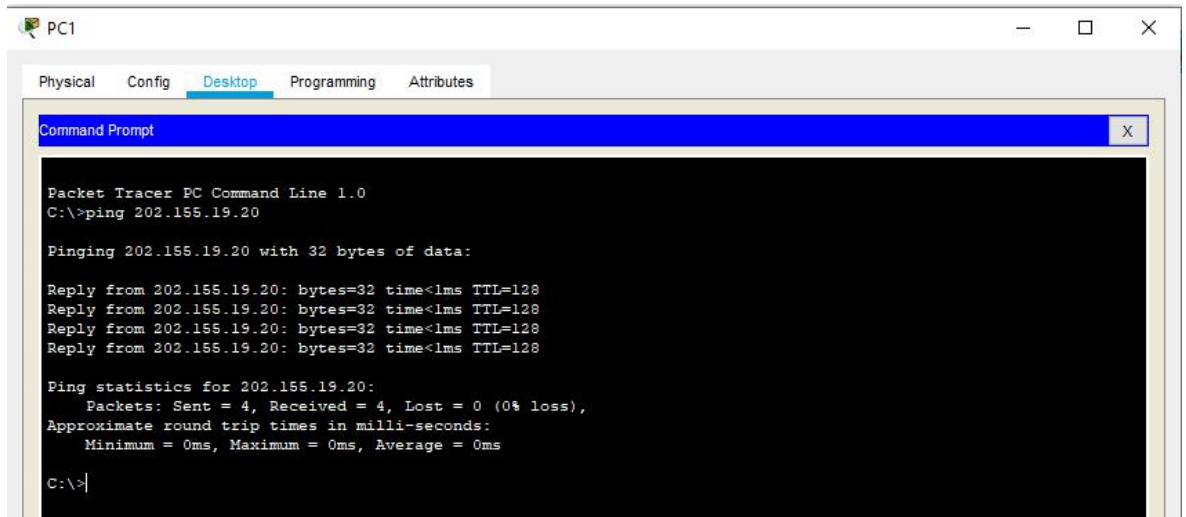   Karena diperlukan 5 subnet, maka dengan mengubah 3 digit binner 0 menjadi binner 1 sudah
    didapatkan $2^3 = 8$ Subnet, dan sudah mencukupi

    - **Jumlah Subnet (2^x):**
      $2^3 = $ **8** Subnet
    - **Host per Subnet (2^y-2) :**
      2^5-2 = **30** Host
    - **Block Subnet**
      256-224 = **32** IP
    - Tabel Subnet

Network	202.155. 19.0	202.155. 19.32	202.155. 19.64	202.155. 19.96	202.155. 19.128	202.155. 19.160	202.155. 19.192	202.155. 19.224
IP Awal	202.155. 19.1	202.155. 19.33	202.155. 19.65	202.155. 19.97	202.155. 19.129	202.155. 19.161	202.155. 19.193	202.155. 19.225
IP Akhir	202.155. 19.30	202.155. 19.62	202.155. 19.94	202.155. 19.126	202.155. 19.158	202.155. 19.190	202.155. 19.222	202.155. 19.254
Broadcast	202.155. 19.31	202.155. 19.63	202.155. 19.95	202.155. 19.127	202.155. 19.159	202.155. 19.191	202.155. 19.223	202.155. 19.255

3. Uji Coba Koneksi
   - PC1 ke PC2

   - PC2 ke PC9

   - PC5 ke PC6

- PC8 ke PC10