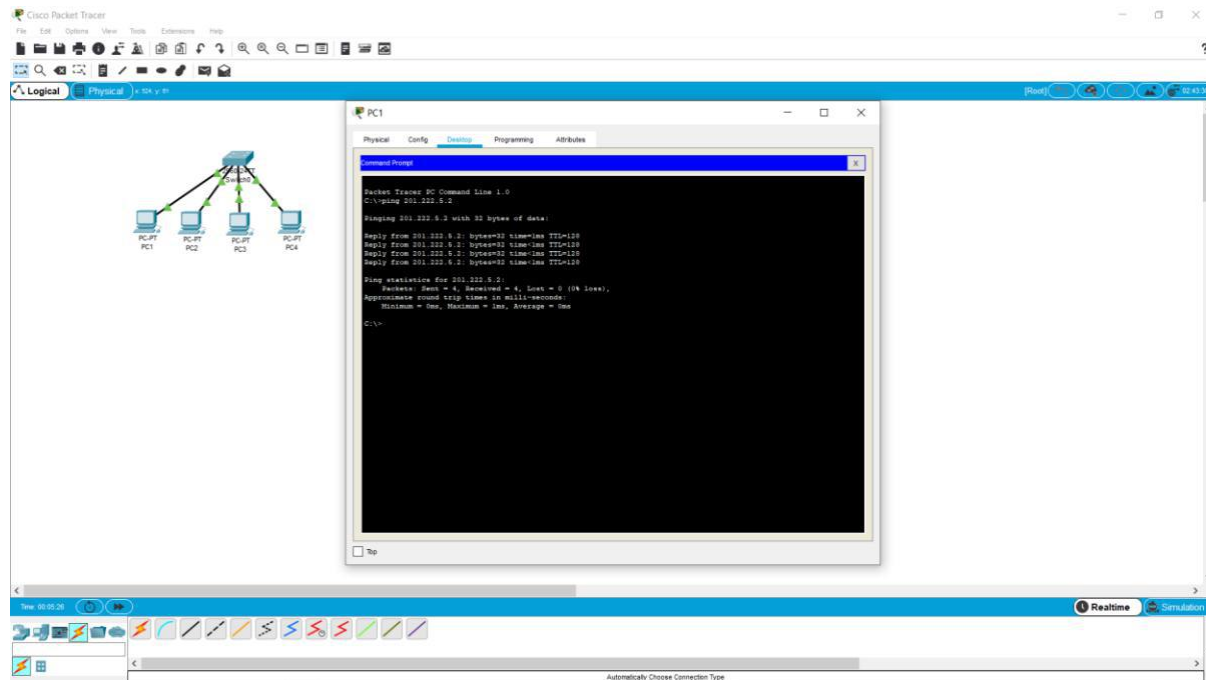


Nama : Fawwaz Haidar A.K

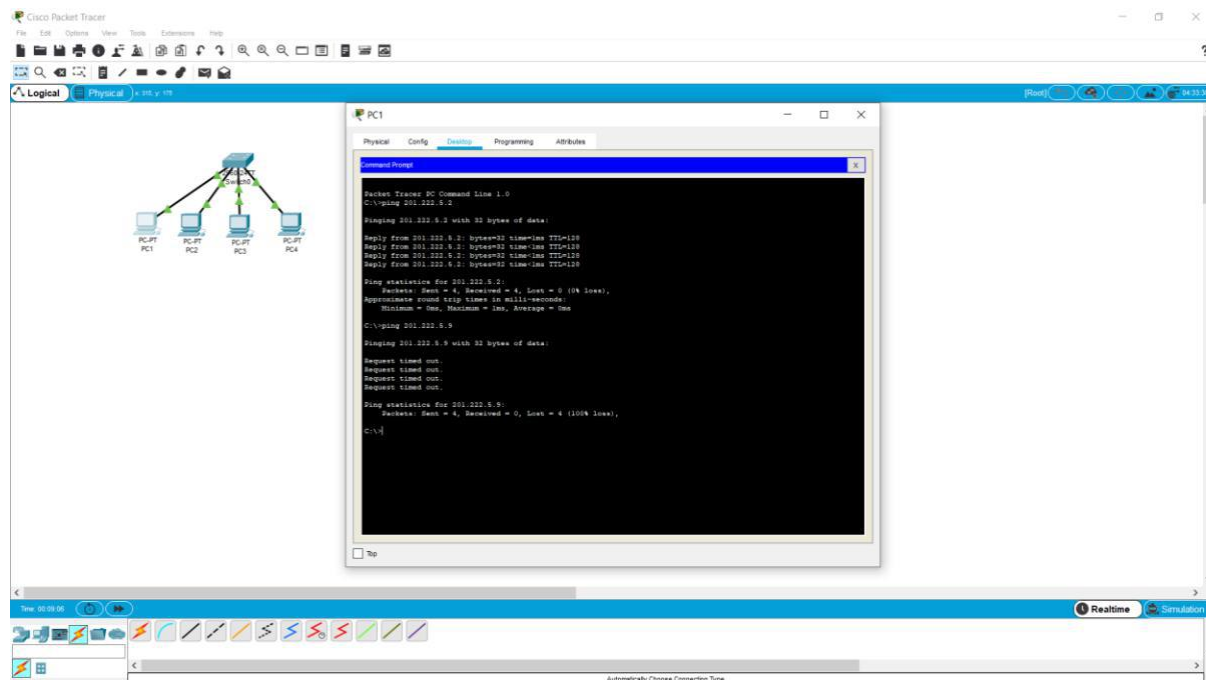
NIM : L200183143

MODUL 3

SubNetting



Ping dari pc1 ke pc 2 terhubung, pc dua memberi respon karena network address nya sama

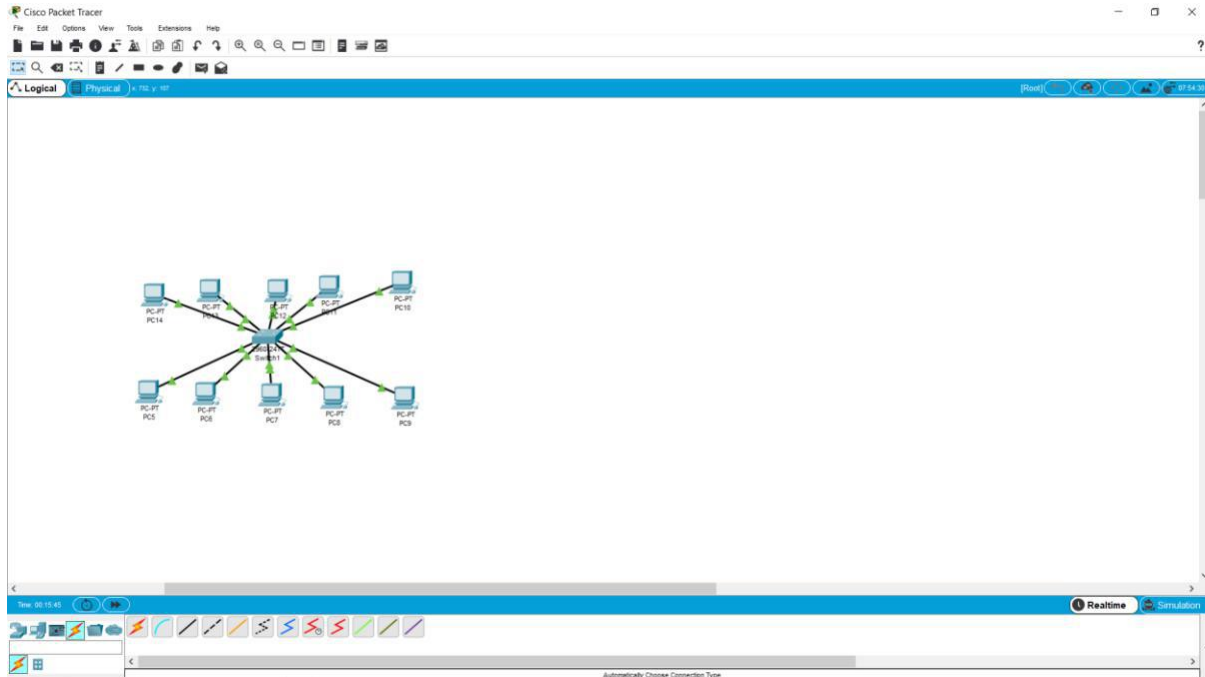


Ping PC1 ke PC2, tidak terhubung dan muncul 'Request timed out' dikarenakan jangkauan IPaddressnya hanya 8 bit, karena pada PC1 IPaddress nya 201.222.5.2 hanya dapat menjangkau maksimal pada IPaddress 201.222.5.7.

Tugas Modul

Nomor 2

- Desain jaringan dengan Packet Tracer
- Menggunakan switch seri generic dan 10 unit PC



- Menentukan subnet mask

Kita membutuhkan 5 subnet, maka nilai X dari rumus jumlah subnet didapatkan nilai $X = 3$. Jadi terdapat 3 bit 1 dalam subnet mask. Karena dalam satu blok terdapat 8 bit maka didapatkan nilai $Y = 5$. Jadi terdapat 5 bit 0. Sehingga didapatkan :

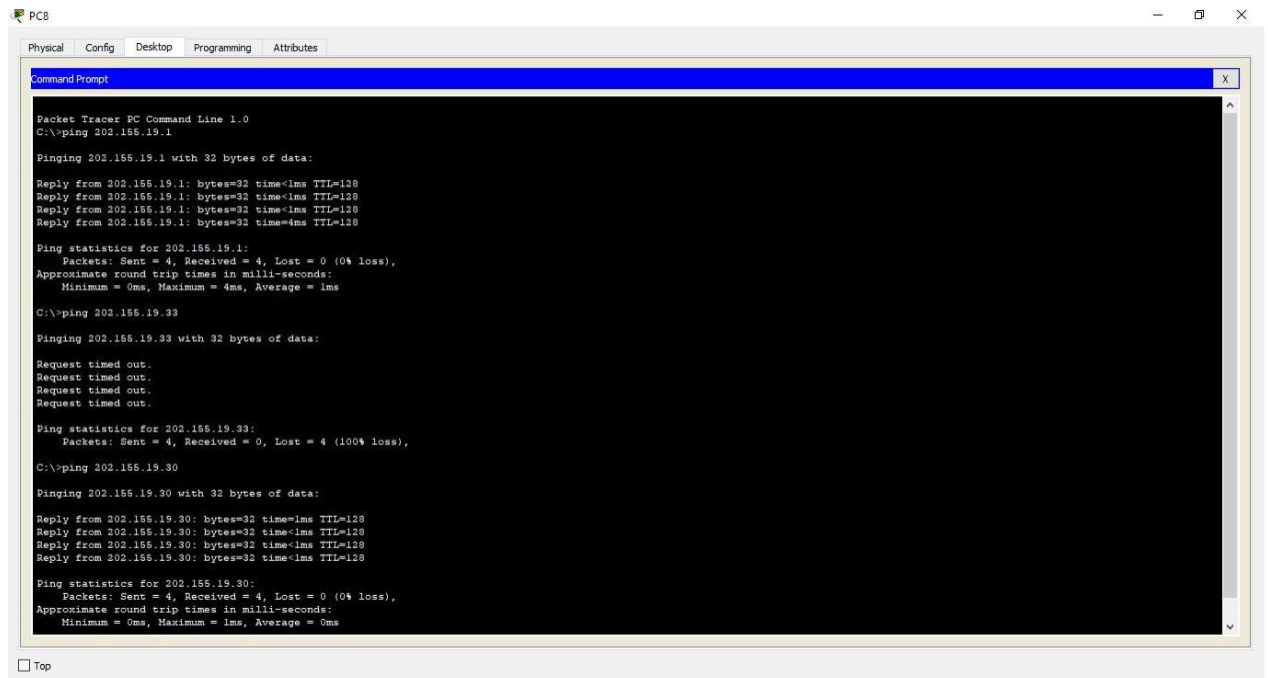
11111111	11111111	11111111	11100000
255.	255.	255.	224

- Subnet address yang terbentuk

$256 - 224 = 32$ IPaddress

- 202.155.19.0
- 202.155.19.32
- 202.155.19.64
- 202.155.19.98
- 202.155.19.130, dst.

- c. Implementasi dengan simulator
- d. Tes koneksi antar computer.



```
Packet Tracer PC Command Line 1.0
C:\>ping 202.155.19.1

Pinging 202.155.19.1 with 32 bytes of data:

Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time<1ms TTL=128
Reply from 202.155.19.1: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>ping 202.155.19.33

Pinging 202.155.19.33 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 202.155.19.33:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 202.155.19.30

Pinging 202.155.19.30 with 32 bytes of data:

Reply from 202.155.19.30: bytes=32 time<1ms TTL=128
Reply from 202.155.19.30: bytes=32 time<1ms TTL=128
Reply from 202.155.19.30: bytes=32 time<1ms TTL=128
Reply from 202.155.19.30: bytes=32 time<1ms TTL=128

Ping statistics for 202.155.19.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Setelah di lakukan ping dari PC divisi 1 ke PC divisi 1, maka terhubung, PC memberikan jawaban/respon. Sedangkan ping dari Pc divisi 1 ke PC divisi 2, maka tidak terhubung, muncul ‘Request timed out’ dikarenakan berbeda subnet address.