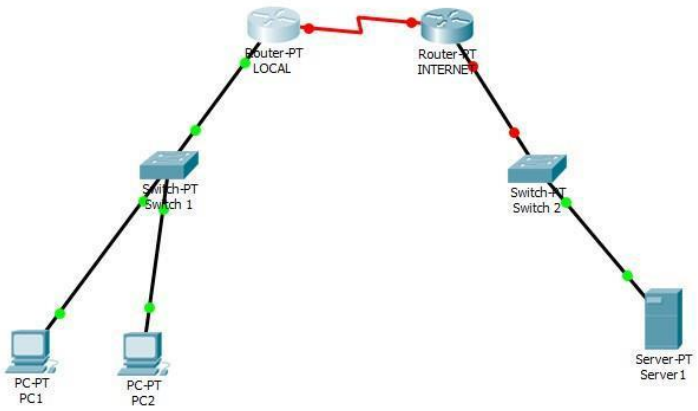
NAMA : Fiko Mulad Cakra Bagaskara

NIM : L200170171

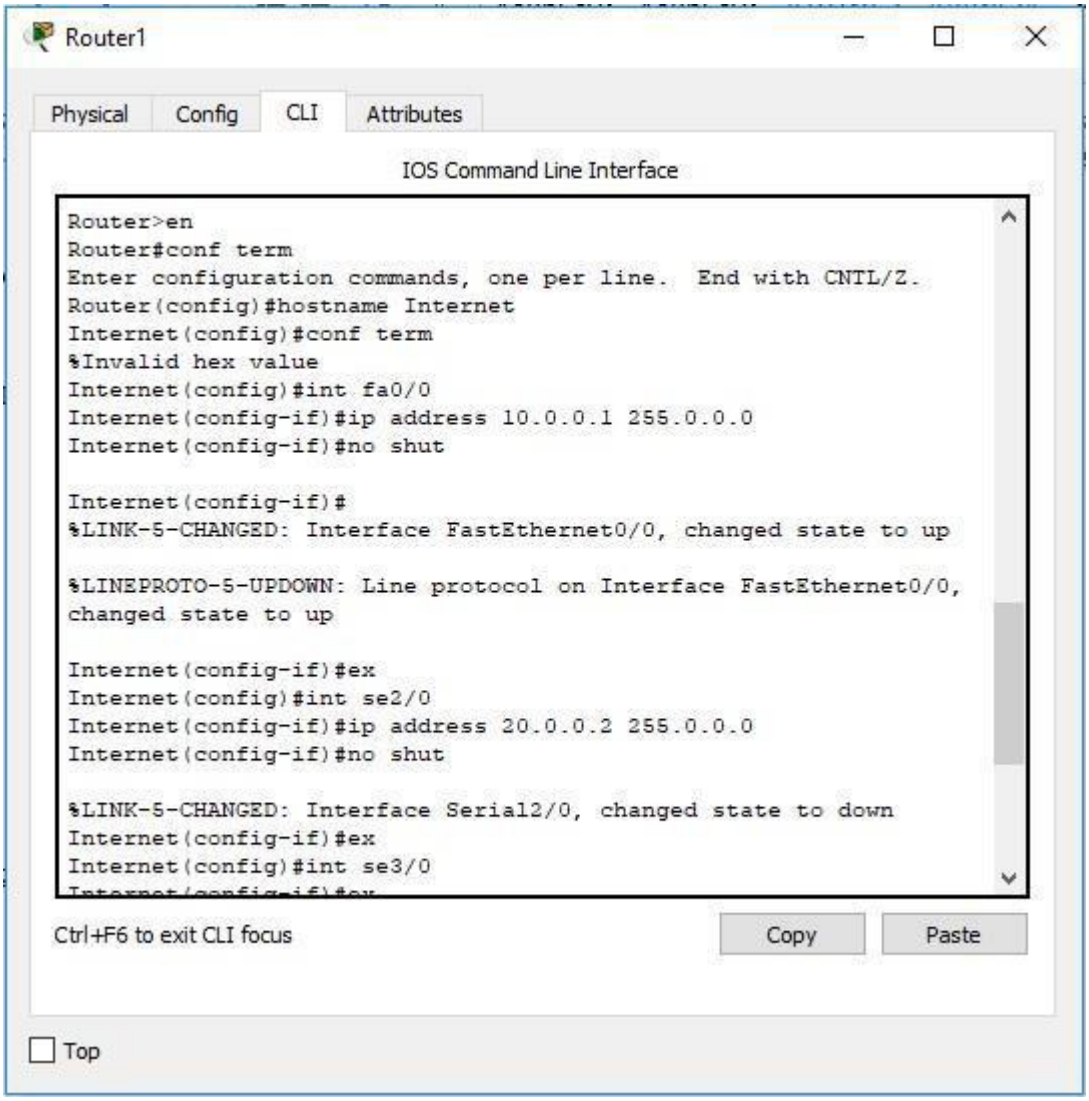
KELAS : D

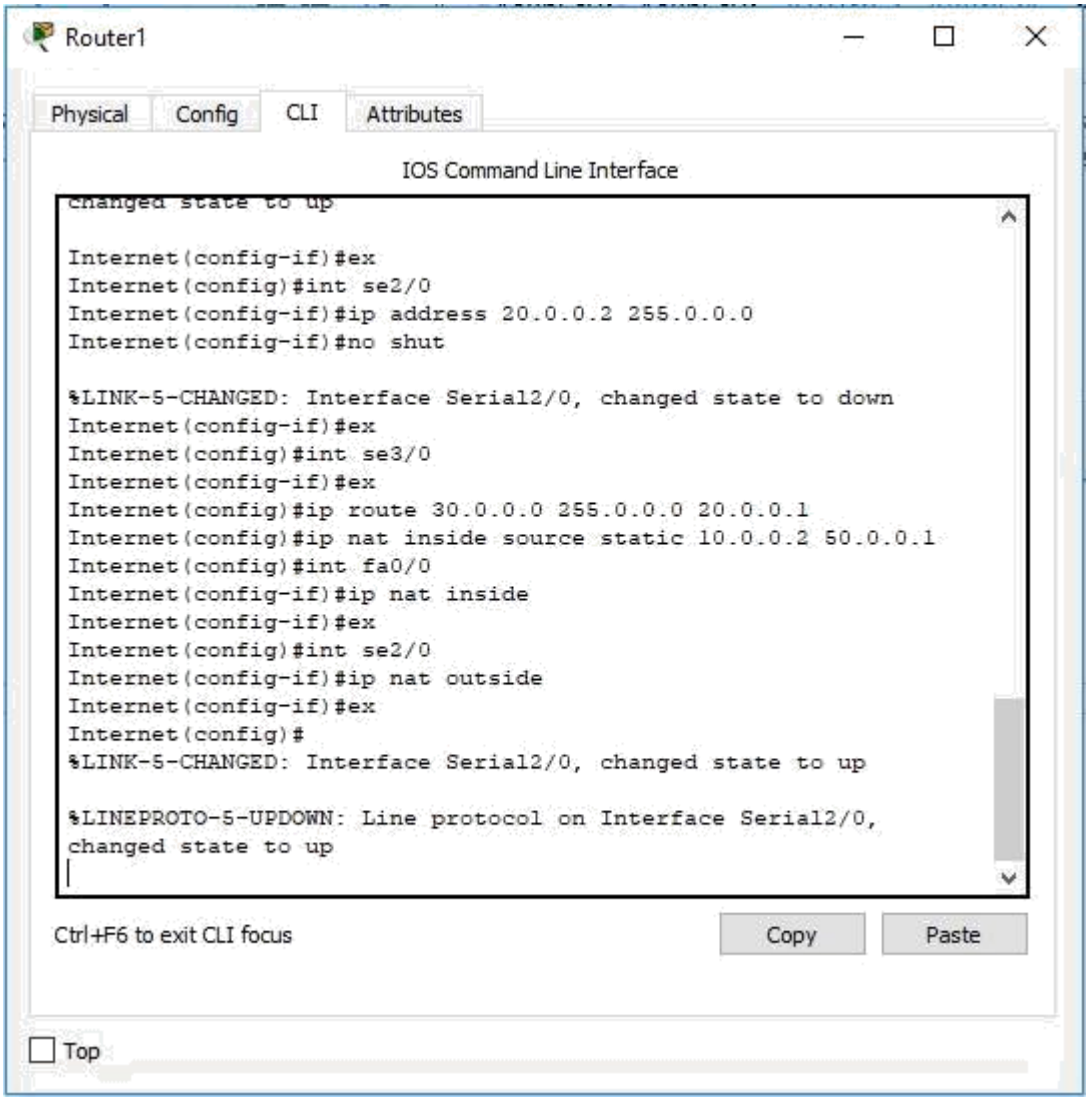
MODUL 9

1.

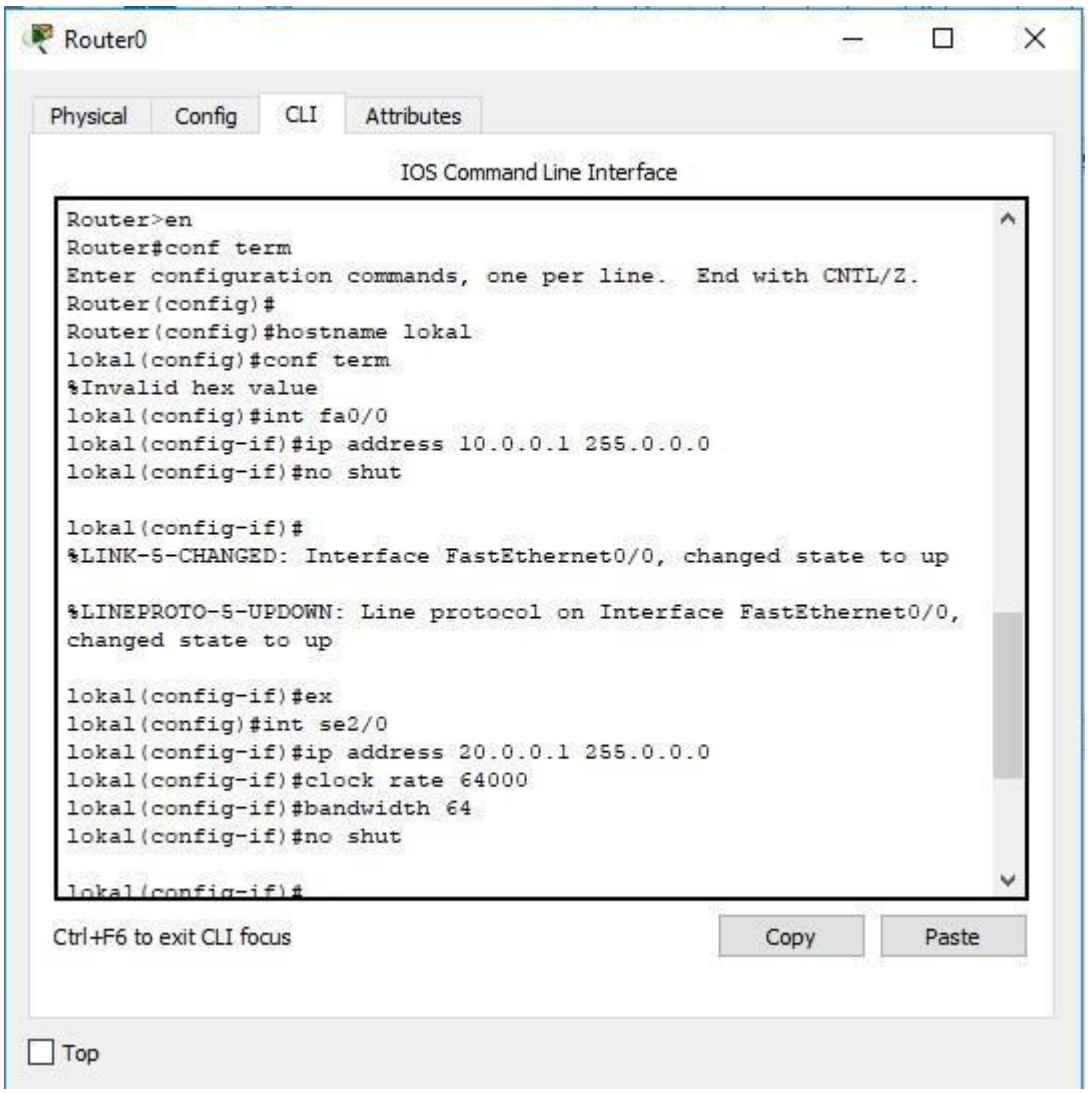


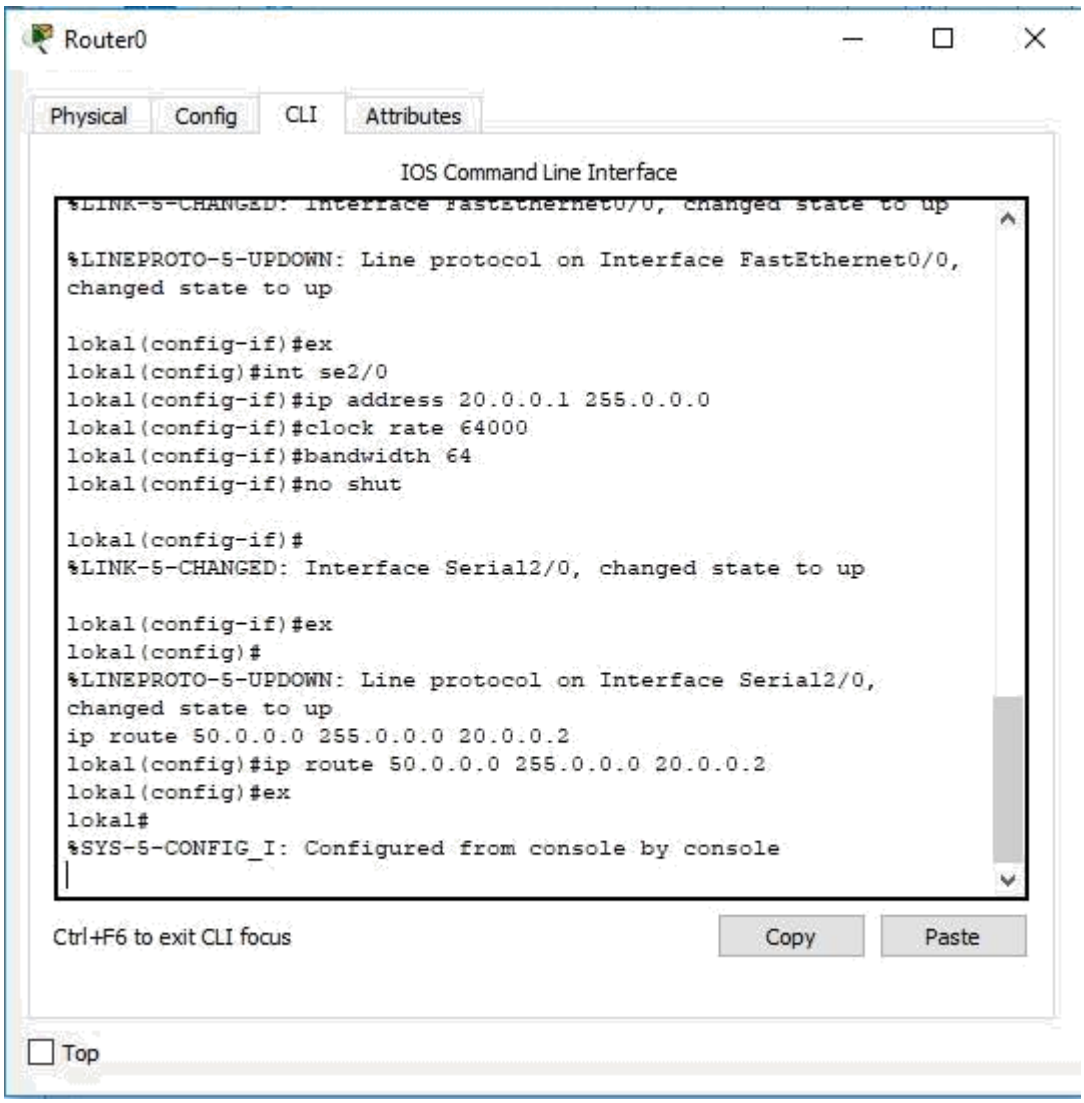
2. Kobfigurasi router internet



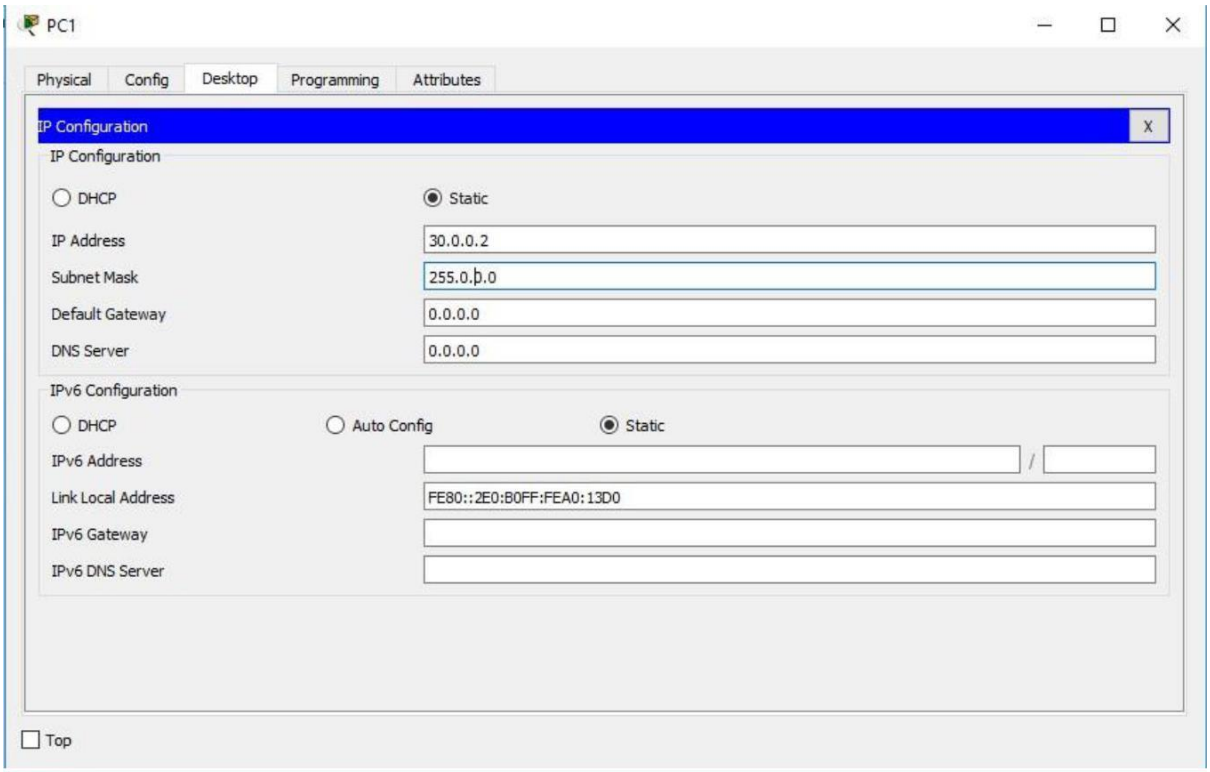

Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
changed state to up
Internet(config-if)#ex
Internet(config)#int se2/0
Internet(config-if)#ip address 20.0.0.2 255.0.0.0
Internet(config-if)#no shut
%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Internet(config-if)#ex
Internet(config)#int se3/0
Internet(config-if)#ex
Internet(config)#ip route 30.0.0.0 255.0.0.0 20.0.0.1
Internet(config)#ip nat inside source static 10.0.0.2 50.0.0.1
Internet(config)#int fa0/0
Internet(config-if)#ip nat inside
Internet(config-if)#ex
Internet(config)#int se2/0
Internet(config-if)#ip nat outside
Internet(config-if)#ex
Internet(config)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,
changed state to up
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

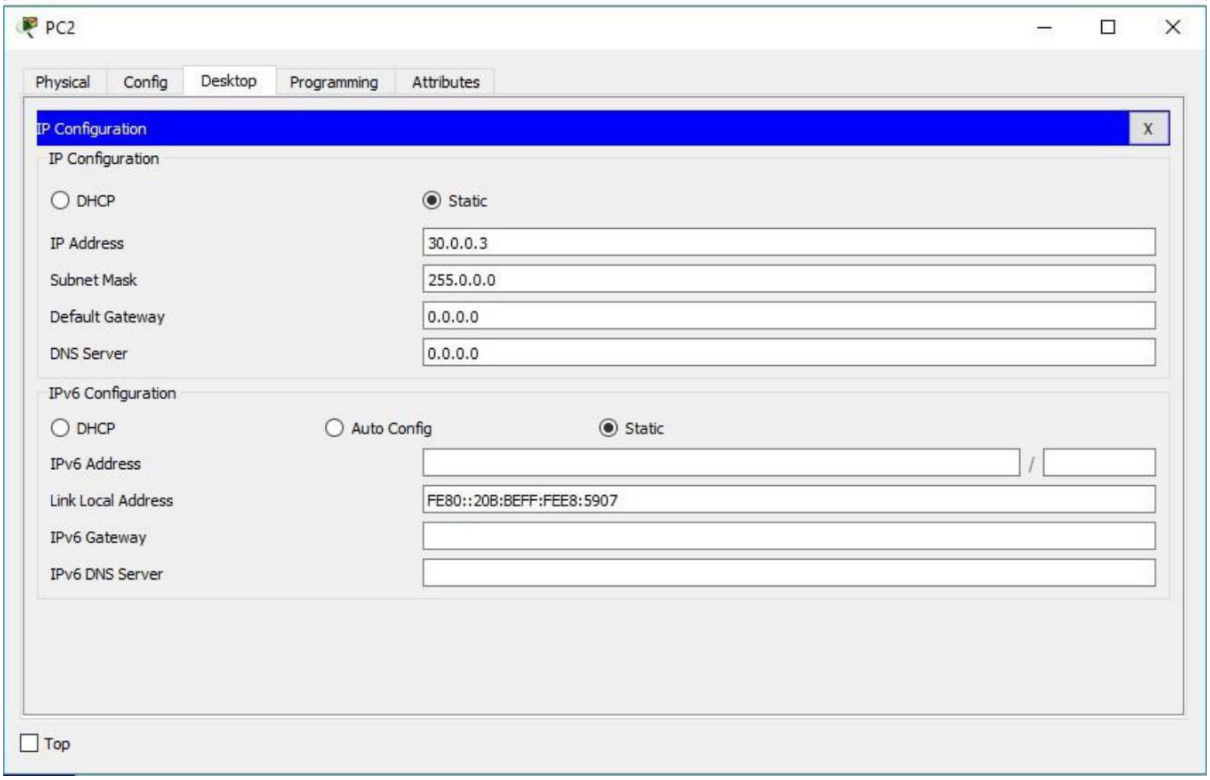
3. Konfigurasi router lokal

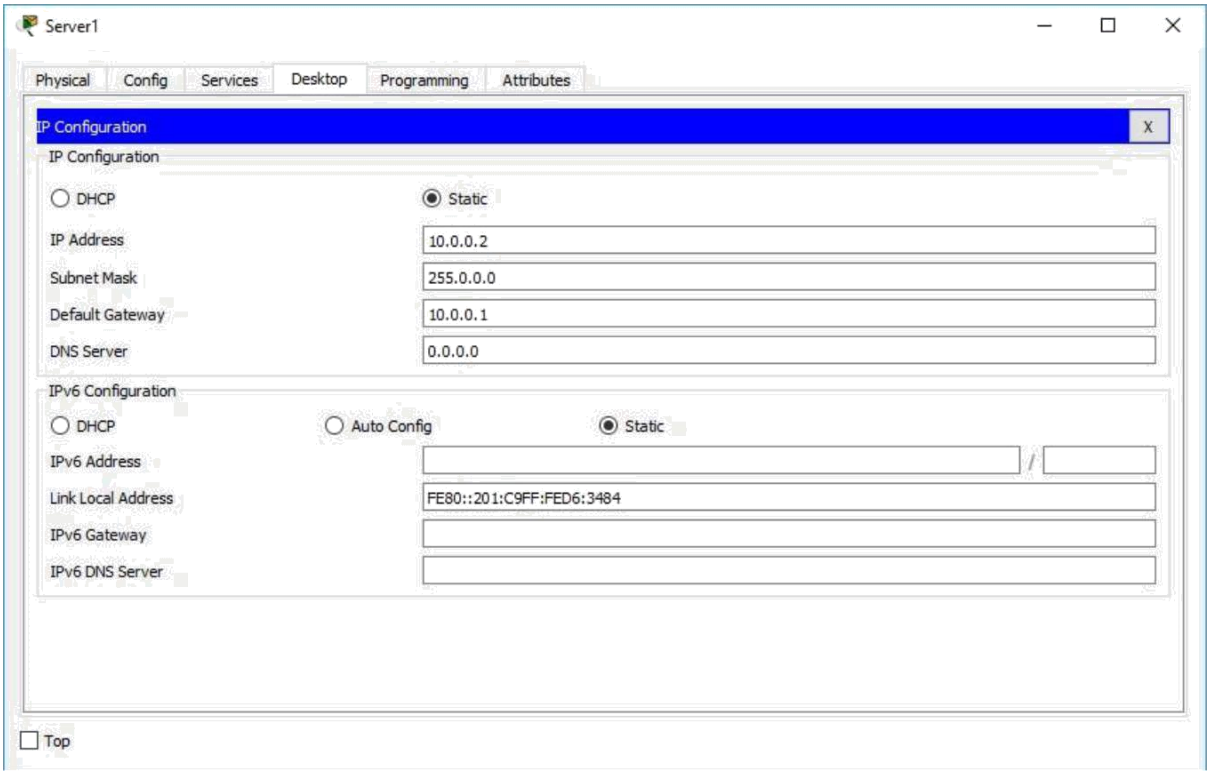



Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
lokal(config-if)#ex
lokal(config)#int se2/0
lokal(config-if)#ip address 20.0.0.1 255.0.0.0
lokal(config-if)#clock rate 64000
lokal(config-if)#bandwidth 64
lokal(config-if)#no shut
lokal(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
lokal(config-if)#ex
lokal(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0,
changed state to up
ip route 50.0.0.0 255.0.0.0 20.0.0.2
lokal(config)#ip route 50.0.0.0 255.0.0.0 20.0.0.2
lokal(config)#ex
lokal#
%SYS-5-CONFIG_I: Configured from console by console
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

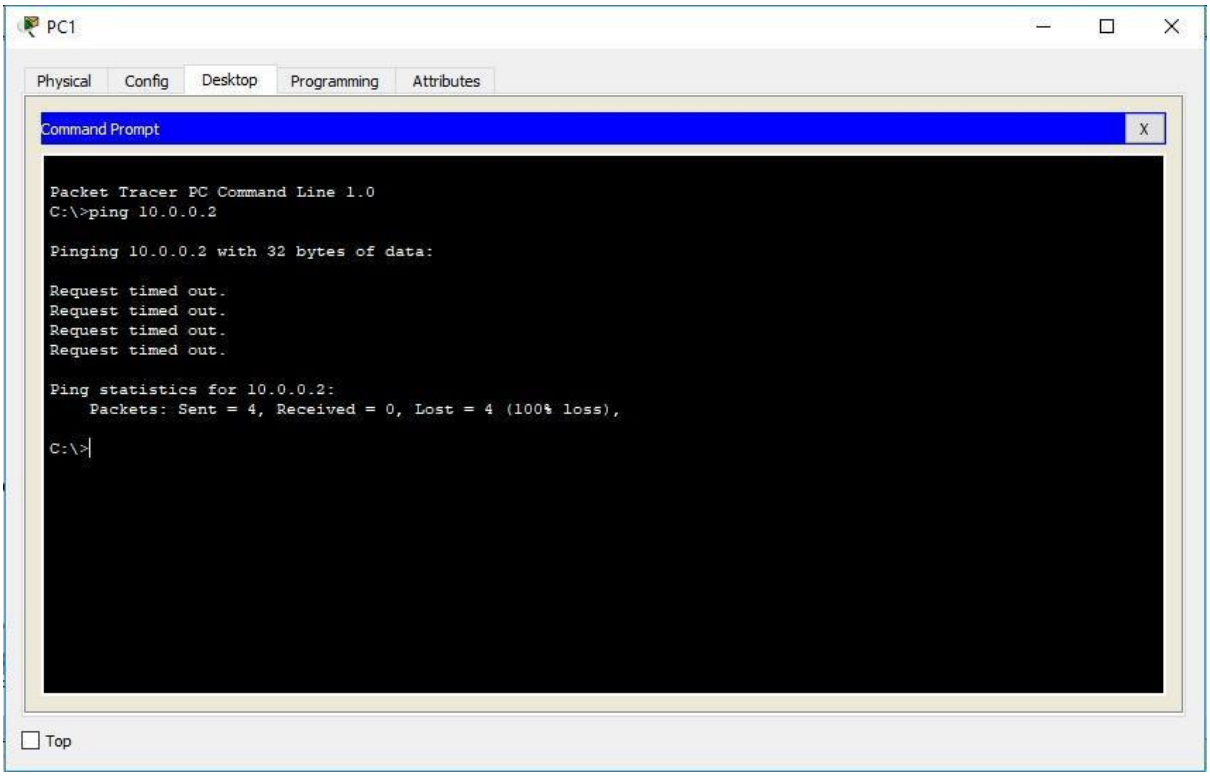
4. Beri IP pada PC dan server







5. Lakukan ping ke IP private server



6. Lakukan ping ke ip publik server

```
C:\>ping 50.0.0.1

Pinging 50.0.0.1 with 32 bytes of data:

Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.

Ping statistics for 50.0.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

TUGAS

1. Tarik kesimpulan dari konfigurasi NAT tersebut, bandingkan dengan mekanisme routing statis tanpa menggunakan NAT

   JAWAB : NAT (Network Address Translation) adalah sebuah proses pemetaan alamat IP dimana perangkat jaringan komputer akan memberikan alamat IP public ke perangkat jaringan local sehingga banyak IP private yang dapat mengakses IP public.

   Dengan kata lain NAT akan mentranslasikan alamat IP sehingga IP address pada jaringan local dapat mengakses IP public pada jaringan WAN. NAT mentranslasikan alamat IP private untuk dapat mengakses alamat host diinternat dengan menggunakan alamat IP public pada jaringan tersebut. Tanpa hal tersebut(NAT) tidaka mungkin IP private pada jaringan local bisa mengakses internet.