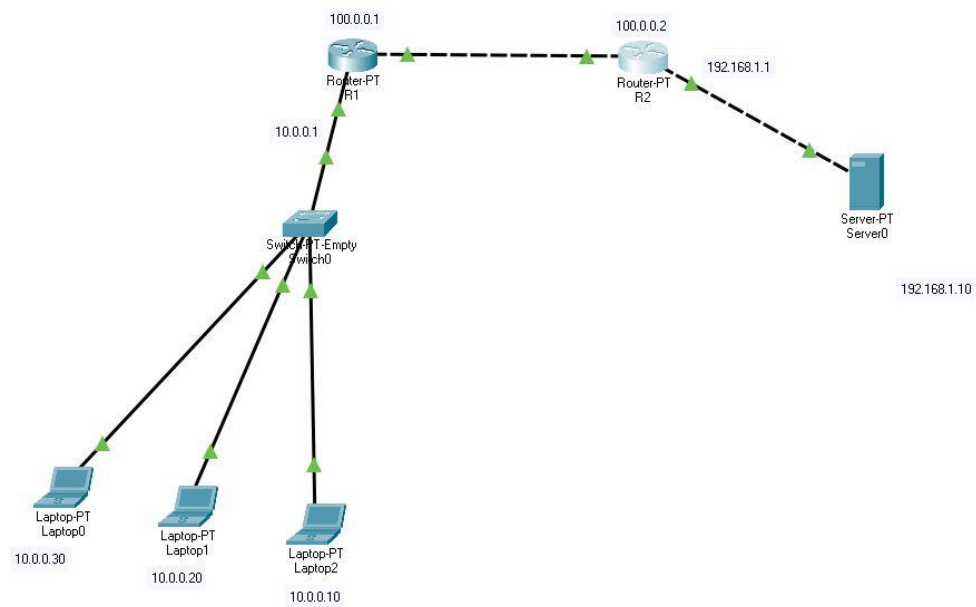

Name: Muhammad Abeer

Roll no: 19P-0061

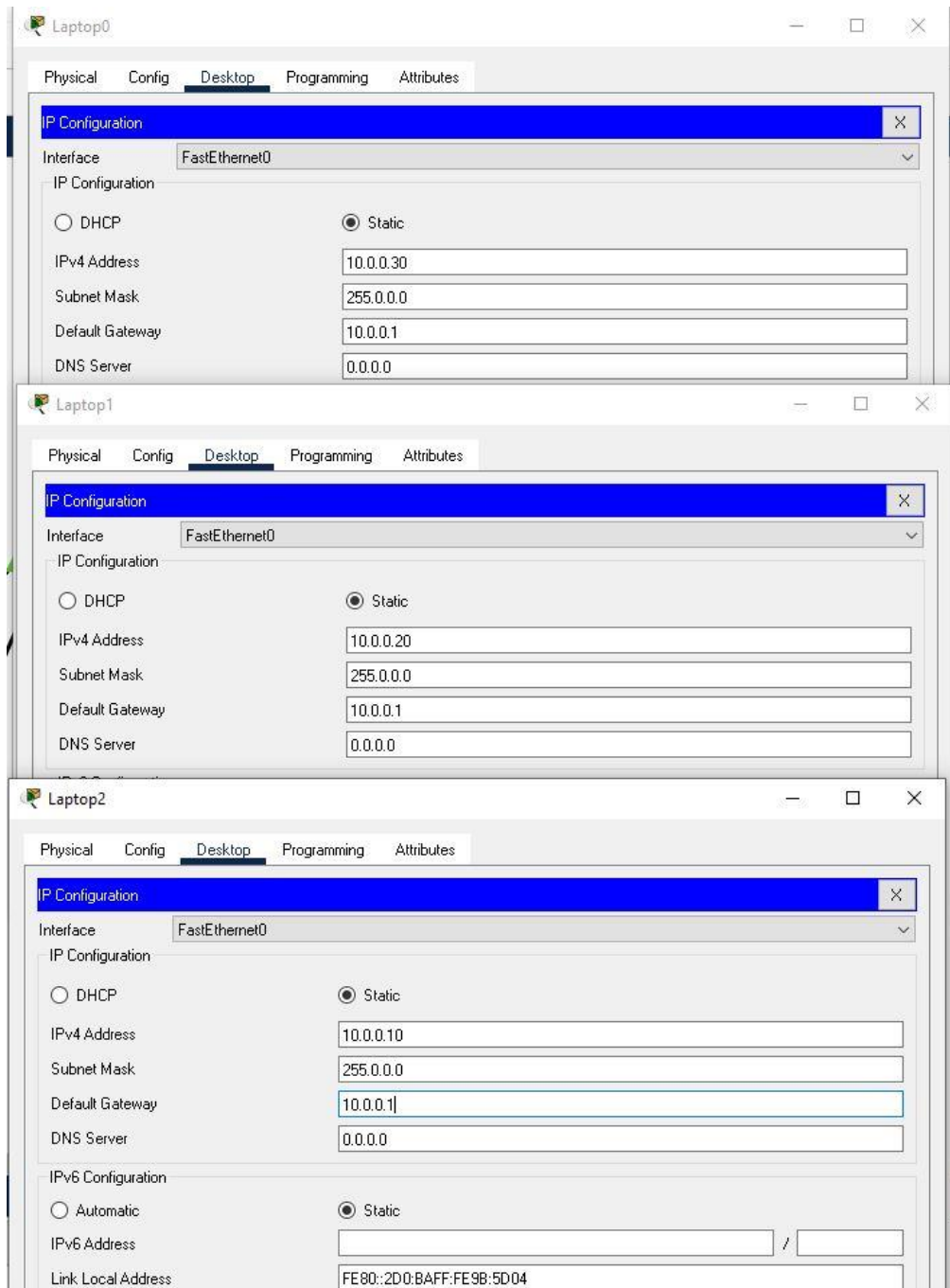
Section: 5-B

LAB WORK 9

Configuration



IP CONFIGURATION OF PC's and SERVER



Server0

Physical Config Services **Desktop** Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.19

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server:

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:BAFF:FE61:1755

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

NAT CONFIG R1

```
Router(config-if)#ex
Router(config)#
Router(config)#ip nat inside source static 10.0.0.10 50.0.0.10
Router(config)#interface FastEthernet 1/0
Router(config-if)#ip nat inside
Router(config-if)#ex
Router(config)#interface FastEthernet 0/0
^
% Invalid input detected at '^' marker.

Router(config)#interface FastEthernet 0/0
Router(config-if)#ip nat outside
Router(config-if)#ex
Router(config)#ip nat inside source static 10.0.0.20 50.0.0.20
Router(config)#ip nat inside source static 10.0.0.30 50.0.0.30
Router(config)#ip route 200.0.0.0 255.255.255.0 100.0.0.2
Router(config)#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

Top

NAT CONFIG OF R2

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ex
Router(config)#ip nat inside source static 192.168.1.10 200.0.0.10
Router(config)#interface FastEthernet 1/0
Router(config-if)#ipnat inside
^
% Invalid input detected at '^' marker.

Router(config-if)#ip nat inside
Router(config-if)#ex
Router(config)#interface FastEthernet 0/0
Router(config-if)#ip nat outside
Router(config-if)#ex
Router(config)#ip route 50.0.0.0 255.0.0.0 100.0.0.1
Router(config)#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

Top

Testing NAT

```
Packet Tracer PC Command Line 1.0
PC>ping 200.0.0.10

Pinging 200.0.0.10 with 32 bytes of data:

Reply from 200.0.0.10: bytes=32 time=1ms TTL=126
Reply from 200.0.0.10: bytes=32 time=0ms TTL=126
Reply from 200.0.0.10: bytes=32 time=1ms TTL=126
Reply from 200.0.0.10: bytes=32 time=0ms TTL=126

Ping statistics for 200.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>ping 200.0.0.10

Pinging 200.0.0.10 with 32 bytes of data:

Reply from 200.0.0.10: bytes=32 time=0ms TTL=126
Reply from 200.0.0.10: bytes=32 time=0ms TTL=126
Reply from 200.0.0.10: bytes=32 time=0ms TTL=126
Reply from 200.0.0.10: bytes=32 time=11ms TTL=126

Ping statistics for 200.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 11ms, Average = 2ms

PC>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 10.0.0.1: Destination host unreachable.
Reply from 10.0.0.1: Destination host unreachable.
Reply from 10.0.0.1: Destination host unreachable.
Reply from 10.0.0.1: Destination host unreachable.

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>
```