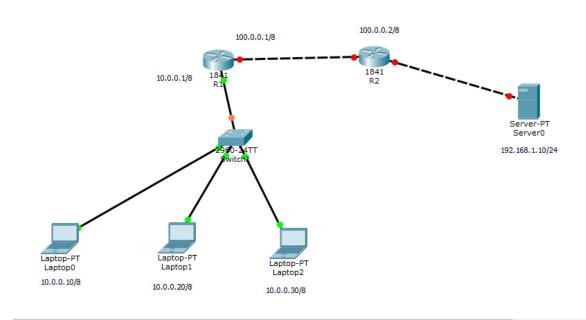


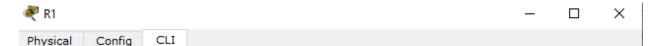
NAME:: IBRAR BABAR

ROLL NO. :: 19P-0104

CN LAB WORK :: 11

SECTION (B)





#### IOS Command Line Interface

```
management network from the above interface summary:
% No defaulting allowed
Enter interface name used to connect to the
management network from the above interface summary:
Press RETURN to get started!
Router>en
Router#config ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname Rl
R1(config)#int f0/0
R1(config-if)#ip add 100.0.0.1 255.0.0.0
R1(config-if) #no shut
R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
R1(config)#int f0/1
R1(config-if) #ip add 10.0.0.1 255.0.0.0
Rl(config-if) #no shut
R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to
up
```

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Config

CLI

# IOS Command Line Interface

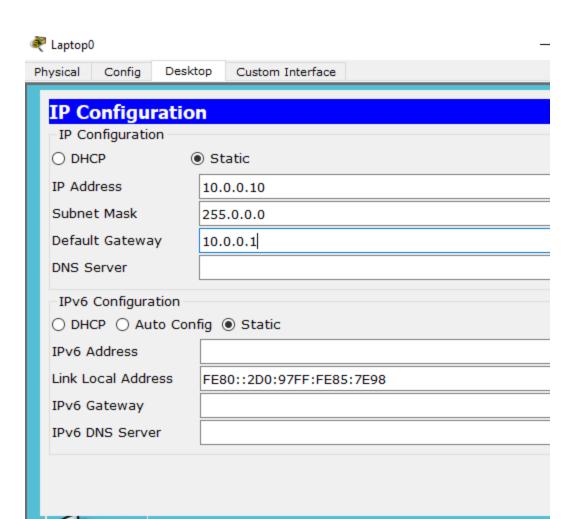
```
Router>en
Router#hostname R2
% Invalid input detected at '^' marker.
Router#config ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #hostname R2
R2(config)#int f0/0
R2(config-if)#ip add 100.0.0.2 255.0.0.0
R2(config-if)#no shut
R2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to
up
ex
R2(config)#int f0/1
R2(config-if)#ip add 192.168.1.1 255.255.255.0
R2(config-if)#no shut
R2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to
up
```

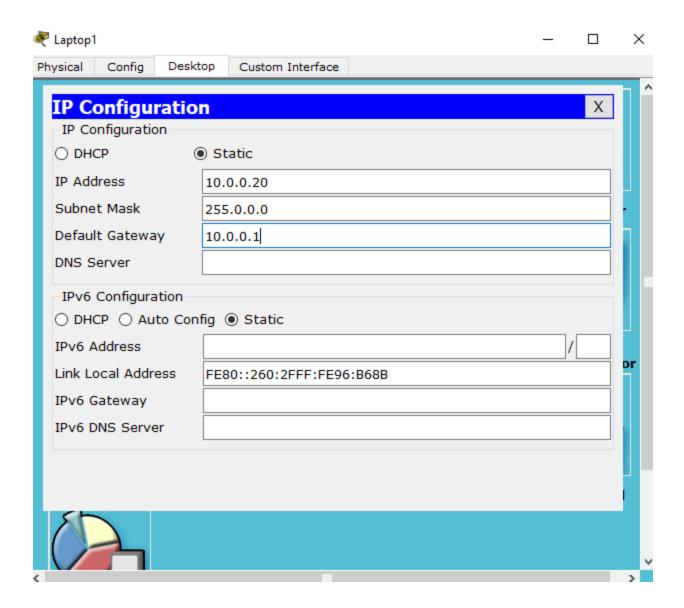
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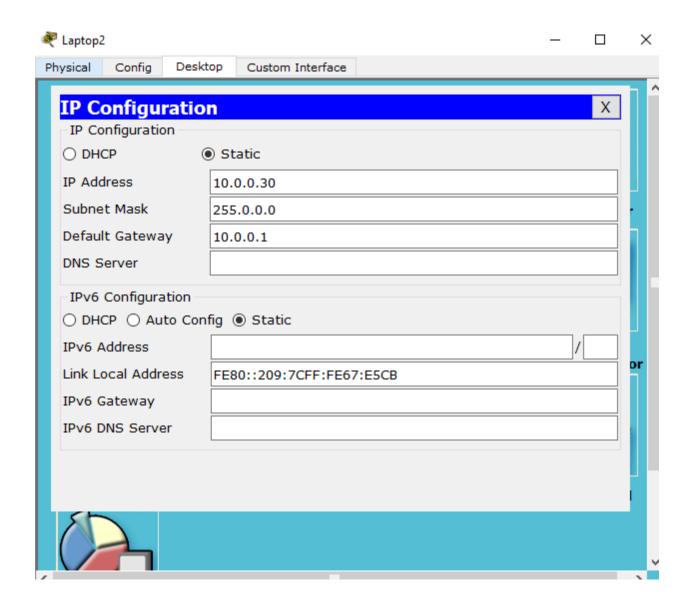
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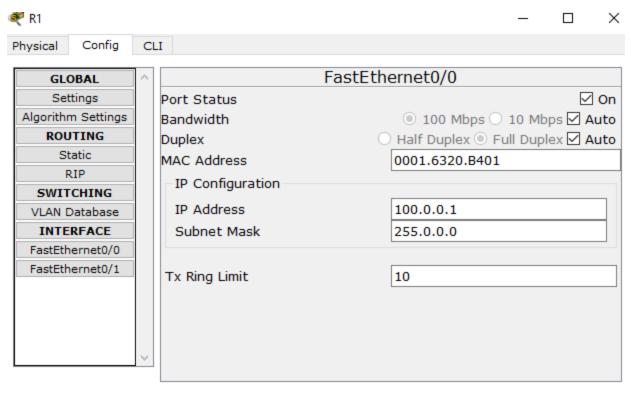
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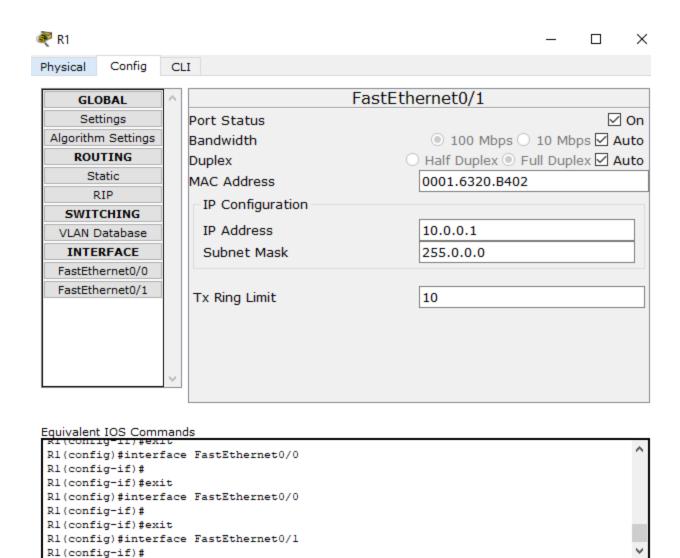


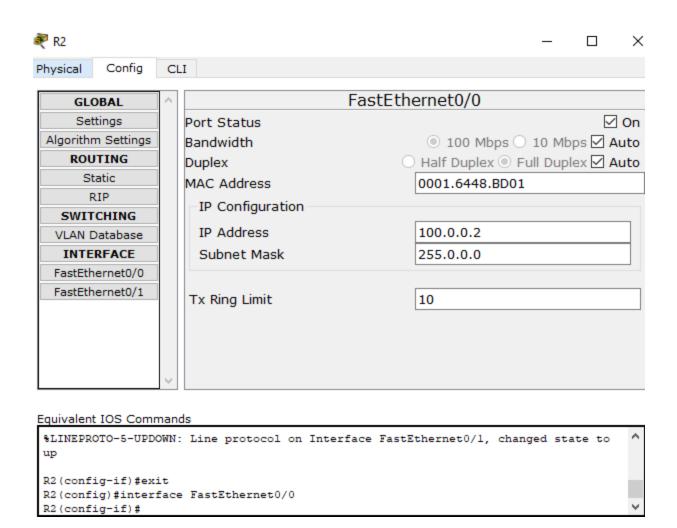


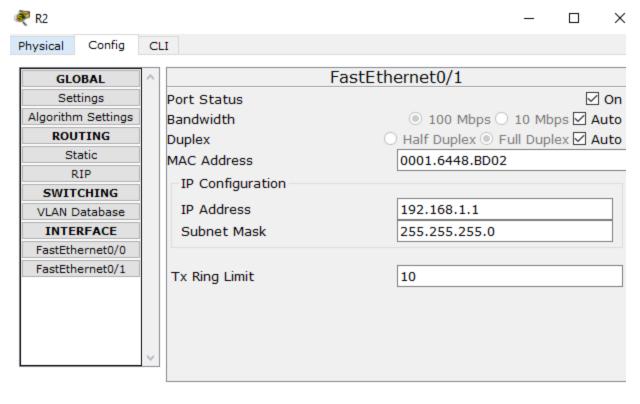




Equivalent IOS Commands
R1(config=11)#exit
R1(config=if)#
R1(config-if)#
R1(config-if)#exit
R1(config-if)#exit
R1(config-if)#exit
R1(config-if)#
R1(config-if)#
R1(config-if)#
R1(config-if)#exit
R1(config-if)#exit
R1(config-if)#exit
R1(config-if)#







Equivalent IOS Commands

\*\*ELINEPROTO-S-OPDOWN. Eline protocol on Interface FastEtherneto/1, changed state to up

R2 (config-if) #exit
R2 (config) #interface FastEthernet0/0
R2 (config-if) #
R2 (config-if) #exit
R2 (config-if) #exit
R2 (config) #interface FastEthernet0/1
R2 (config-if) #

- access-list 1 permit 10.0.0.0 0.255.255.255
- ip nat pool ccna 50.0.0.1 50.0.0.2 netmask 255.0.0.0
- ip nat inside source list 1 pool ccna



Config

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#### IOS Command Line Interface

```
%LINK-5-CHANGED: Interface FastEthernetO/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to
R1(config-if)#exit
R1(config)#interface FastEthernet0/0
R1(config-if)#
R1(config-if)#exit
R1(config) #interface FastEthernet0/1
R1(config-if)#
R1(config-if)#exit
R1(config)#interface FastEthernet0/0
R1(config-if)#
R1(config-if)#exit
R1(config)#interface FastEthernet0/0
R1(config-if)#
R1(config-if)#exit
R1(config)#interface FastEthernet0/1
R1(config-if)#
R1(config-if)#
R1(config-if)#
R1(config-if)#ex
R1(config) #access-list 1 permit 10.0.0.0 0.255.255.255
R1(config)#ip nat pool ccna 50.0.0.1 50.0.0.2 netmask 255.0.0.0
Rl(config) #ip nat inside source list 1 pool ccna
R1(config)#
```

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Physical Config

CLI

# IOS Command Line Interface

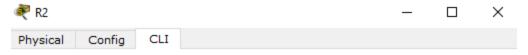
```
R1>
R1>
R1>
R1>en
Rl#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config) #access-list 1 permit 10.0.0.0 0.255.255.255
R1(config)#ip nat pool ccna 50.0.0.1 50.0.0.2 netmask 255.0.0.0
Rl(config) #ip nat inside source list 1 pool ccna
R1(config)#interface FastEthernet 0/1
Rl(config-if)#ip nat inside
R1(config-if)#exit
Rl(config)#interface FastEthernet 0/0
R1(config-if)#ip nat outide
% Invalid input detected at '^' marker.
R1(config-if)#exit
Rl(config)#ip nat outside
% Incomplete command.
R1(config)#
%SYS-5-CONFIG_I: Configured from console by console
Rl#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Rl(config)#interface FastEthernet 0/0
Rl(config-if)#ip nat outside
R1(config-if)#exit
R1(config)#
```

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# IOS Command Line Interface

```
R2>
R2>
R2>enable
R2#configure terminal
Enter configuration commands, one per line. End with CNTL/2.
R2(config)#ip nat inside source static 192.168.1.10 200.0.0.10
R2(config)#interface FastEthernet 0/0
R2(config-if)#ip nat outside
R2(config-if)#exit
R2(config)#interface FastEthernet 0/1
R2(config-if)#ip nat inside
R2(config-if)#exit
R2(config-if)#exit
R2(config-if)#exit
R2(config-if)#exit
```

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Config

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#### IOS Command Line Interface

```
R1(config)#interface FastEthernet 0/1
Rl(config-if)#ip nat inside
R1(config-if)#exit
R1(config)#interface FastEthernet 0/0
Rl(config-if)#ip nat outide
% Invalid input detected at '^' marker.
R1(config-if)#exit
Rl(config)#ip nat outside
% Incomplete command.
R1(config)#
R1#
%SYS-5-CONFIG_I: Configured from console by console
Rl#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface FastEthernet 0/0
Rl(config-if)#ip nat outside
R1(config-if)#exit
R1(config)#
R1(config)#
R1(config)#
R1(config)##ip route 200.0.0.0 255.255.255.0 100.0.0.2
% Invalid input detected at '^' marker.
R1(config)#ip route 200.0.0.0 255.255.255.0 100.0.0.2
R1(config)#ip route 200.0.0.0 255.255.255.252 100.0.0.2
R1(config)#
```

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IOS Command Line Interface

Press RETURN to get started.

R2>
R2>
R2>
R2>conable
R2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#ip nat inside source static 192.168.1.10 200.0.0.10
R2(config)#interface FastEthernet 0/0
R2(config-if)#exit
R2(config)#ip route 50.0.0.0 255.0.0.0 100.0.0.1

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Physical Config Desktop Custom Interface

# Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ipconfig
FastEthernet0 Connection: (default port)
   Link-local IPv6 Address.....: FE80::2D0:97FF:FE85:7E98
   IP Address..... 10.0.0.10
   Subnet Mask..... 255.0.0.0
   Default Gateway..... 10.0.0.1
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.
Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>ping 200.0.0.10
Pinging 200.0.0.10 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 200.0.0.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>
```