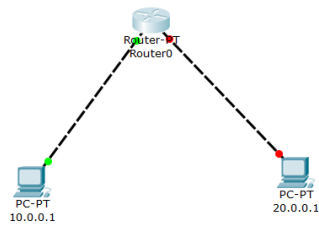
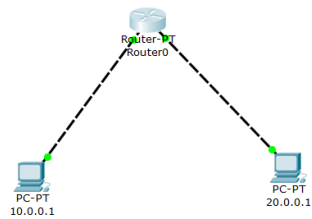


LAB PROGRAM-02

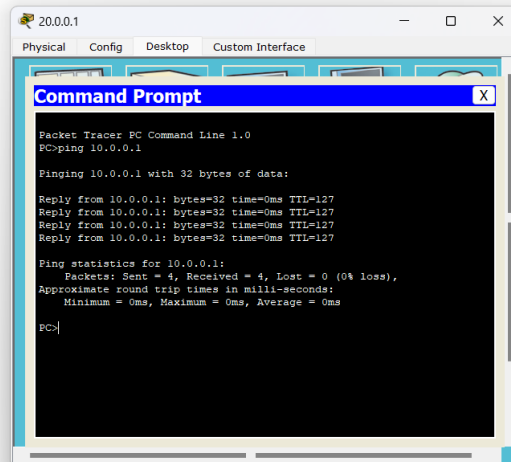
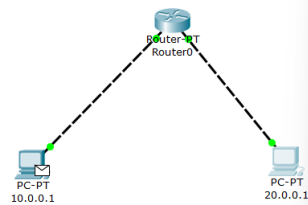
Create a topology consisting of two devices connected with a help of router.



```
Router0
Physical Config CLI
IOS Command Line Interface
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: no
Press RETURN to get started!
Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(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
%IP-4-DUPADDR: Duplicate address 10.0.0.1 on FastEthernet0/0, sourced by 0030.A366.96CA
Router(config-if)#
```



```
Router0
Physical Config CLI
IOS Command Line Interface
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(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
%IP-4-DUPADDR: Duplicate address 10.0.0.1 on FastEthernet0/0, sourced by 0030.A366.96CA
Router(config-if)#interface fa1/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
%IP-4-DUPADDR: Duplicate address 20.0.0.1 on FastEthernet1/0, sourced by 000C.8530.6C0B
Router(config-if)#exit
Router(config)#
```



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LAB - 02

Create a topology consisting of ^{two} ~~three~~ devices connected with a help of router.

Steps involved:

Step 1 :- Drag and drop 2 generic PC's and a generic switch router. Connect 2 PC's as peripherals to router after setting the IP address as 10.0.0.1 and 20.0.0.1 for PC1 and PC2 respectively and connect down.

Step 2 :- Configure router → enable → Configure terminal → interface fa 0/0 → Ip address 10.0.0.1
[subnet mask 255.0.0.0] → no shutdown → exit

Step 3 :- Ping from PC1 to PC2 and notedown the observation and after the observation specifies the Gateway address and Ping again ~~note~~ again notedown the observation.

Command prompt:-

PC > ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes = 32 time = 11ms TTL=128

Reply from 10.0.0.1: bytes = 32 time = 5ms TTL=128

Reply from 10.0.0.1: bytes = 32 time = 7ms TTL=128

Reply from 10.0.0.1: bytes = 32 time = 6ms TTL=128

Ping statistics for 10.0.0.1:

Packets: sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 5ms, Maximum = 11ms, Average = 7ms

Sgt
23/6/23