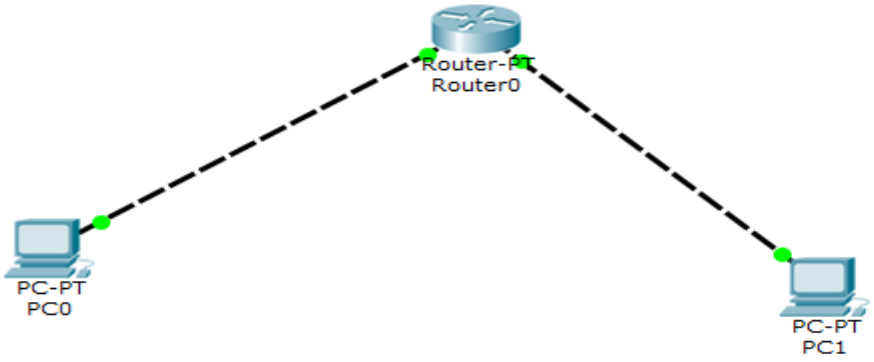
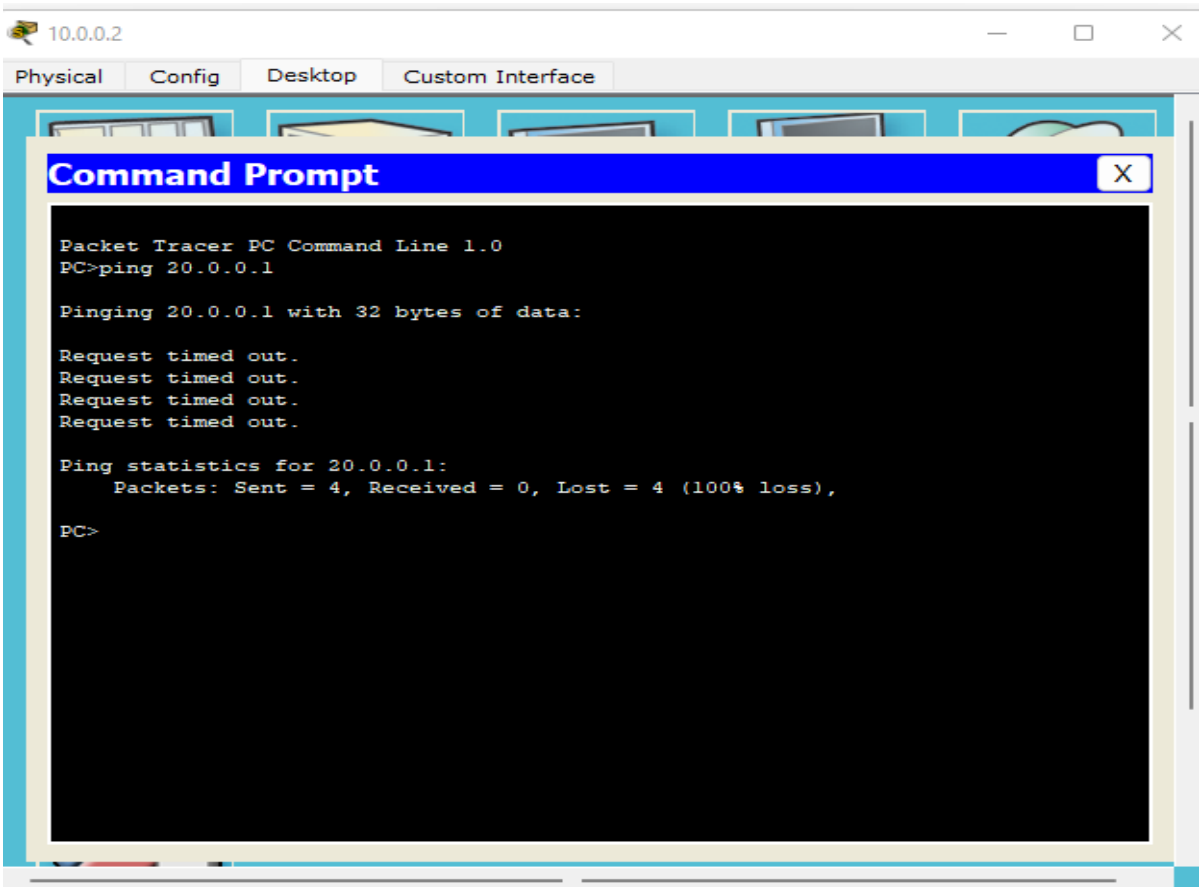
EXP -2

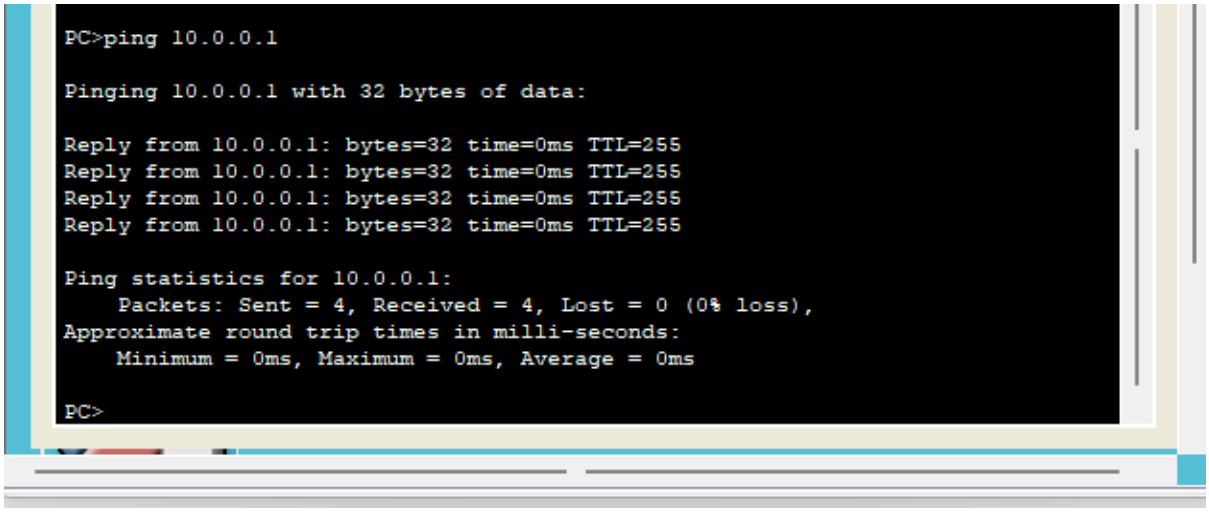


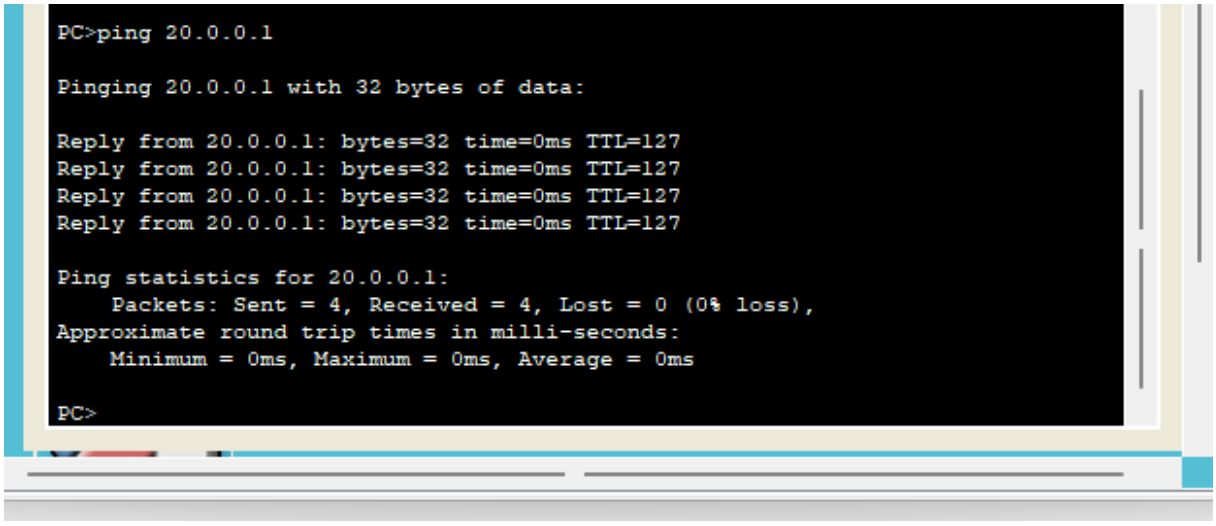

```
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
%Invalid interface type and number
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address 10.0.0.2 255.0.0.0
% 10.0.0.0 overlaps with FastEthernet0/0
Router(config-if)#interface FastEthernet0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
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

Router(config-if)#
```

```
% Invalid input detected at '^' marker.

Router>(config)#interface FastEthernet0/0
                          ^
% Invalid input detected at '^' marker.

Router>
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
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.A343.9E78

Router(config-if)#exit
Router(config)#interface FastEthernet0/1
%Invalid interface type and number
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
```

Copy Paste







Observations

Routers are used to establish network between two different networks

End devices are connected to router with the help of interface, like, end device and router [fast ethernet 0/0] is one interface and another is fast ethernet 1/0

When we try to ping from source to destination without giving gateway, we get “request timed out” ie, packets are sent but are not received and are lost because the router doesn’t know the path to send the packets to the destination

In other case when we specify the gateway for each node we can see that the packets are received and not lost