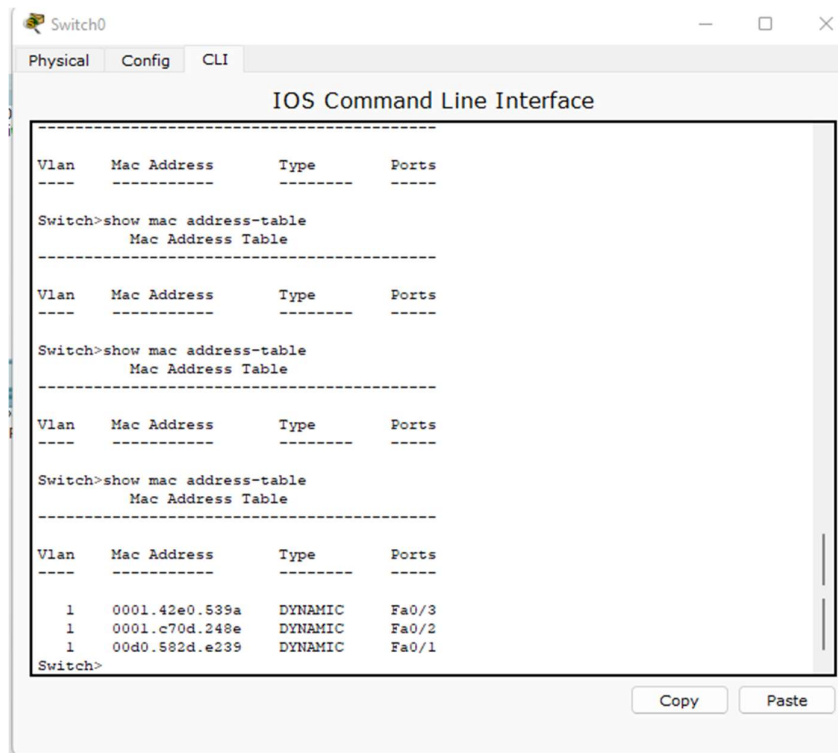
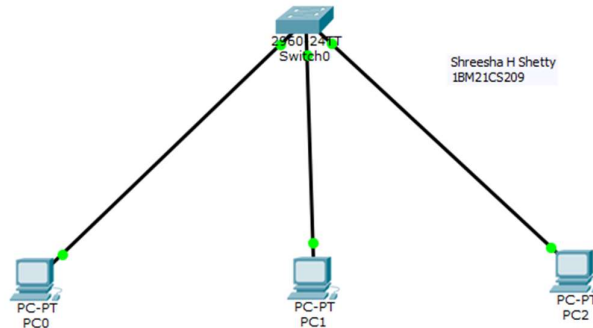
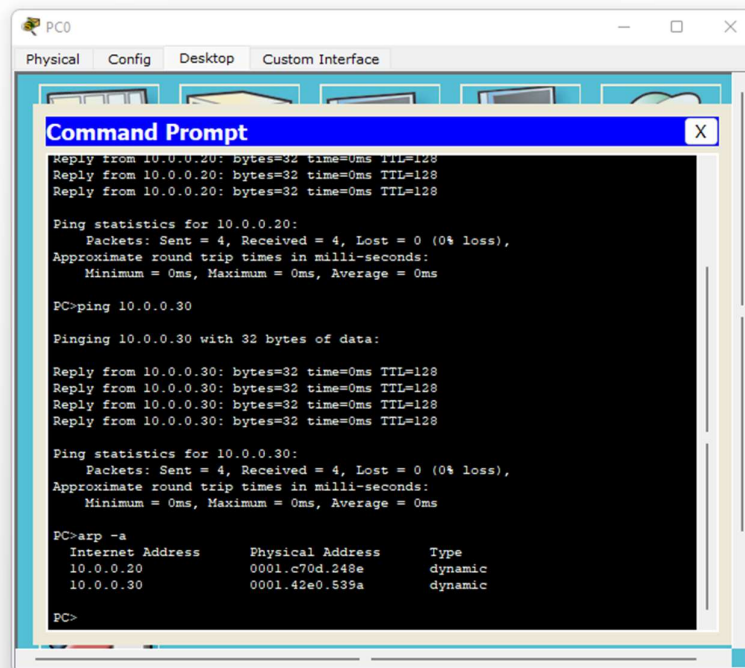


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8.To construct simple LAN and understand the concept and operation of Address Resolution Protocol.

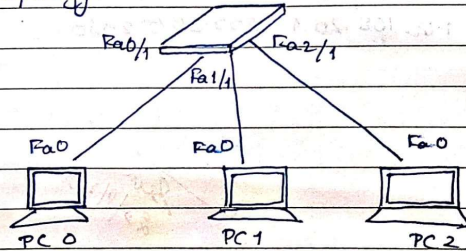




8. To construct simple LAN and understand the concept and operation of Address Resolution Protocol [ARP].

→

Topology:



Procedure:

1. Connect topology as shown above
2. Assign ip address to all end devices

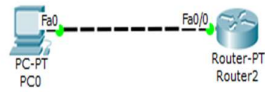
Commands in Router - CLI of router

```

# config terminal
# interface fastEthernet 0/0.1
# encapsulation dot1q20
# ip address 192.168.20.1 255.255.255.0
# no shut
# exit
  
```

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9.Telenet



Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=1ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>telnet 10.0.0.2
Trying 10.0.0.2 ...Open

User Access Verification

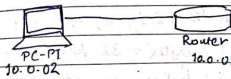
Password:
Password:
rl>enable
Password:
rl>show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0
rl>
```

90. TELNET:

→ Topology:



#enable

#config t

#hostname r1

#enable secret p1

#interface fastEthernet 0/0

#ip address 10.0.0.1 255.0.0.0

#no shut

#line vty 0 5

#login

% login disabled on line 132, until 'password' is set

% login disabled on line 133, until 'password' is set

% login disabled on line 134, until 'password' is set

% login disabled on line 135, until 'password' is set

% login disabled on line 136, until 'password' is set

% login disabled on line 137, until 'password' is set

#password p0

#exit

Result:

PC>ping 192.168.20.3

Pinging 192.168.20.3: bytes: 32 bytes of data

Reply from 192.168.20.3: bytes: 32 time: 1ms TTL=128

Reply from 192.168.20.3: bytes: 32 time: 0ms TTL=128

Reply from 192.168.20.3: bytes: 32 time: 0ms TTL=128

Reply from 192.168.20.3: bytes: 32 time: 0ms TTL=128

Ping statistics for 192.168.20.3

Packets sent=4 Received=4 Lost=0

Approximate round trip times in milliseconds

Minimum=0ms Maximum=1ms, Average=0ms