

COMPUTER NETWORKS (CN)

LAB 3 ASSIGNMENT

AMARNATH C

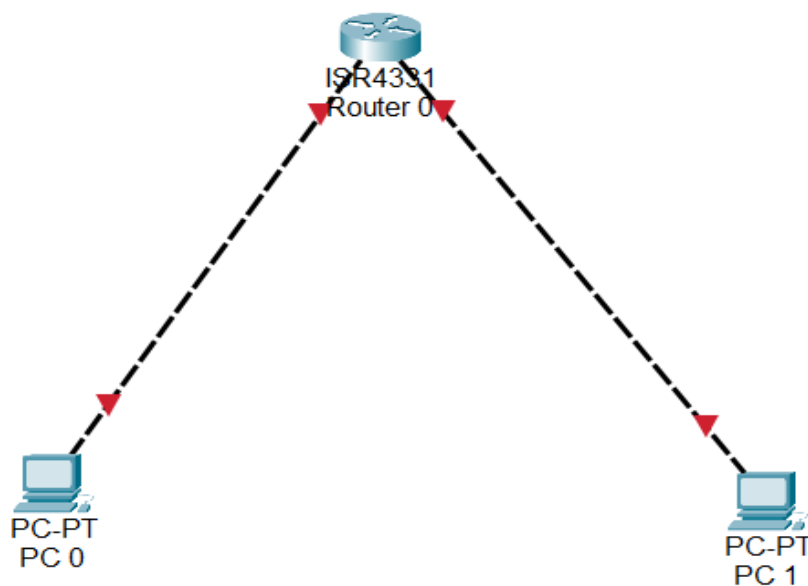
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CSE AIML A

3rd Year

PROCEDURE

STEP 1:



Dragged a ISR4331 Switch and 2 PCs on to the canvas and used Copper Cross-over cable to connect each PC's port FastEthernet0/0 to the router's GigabitEthernet0/0/0 and 0/0/1 respectively.

STEP 2:

```

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config)#
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#ip address 192.168.20.1 255.255.255.0
Router(config-if)#no shutdown

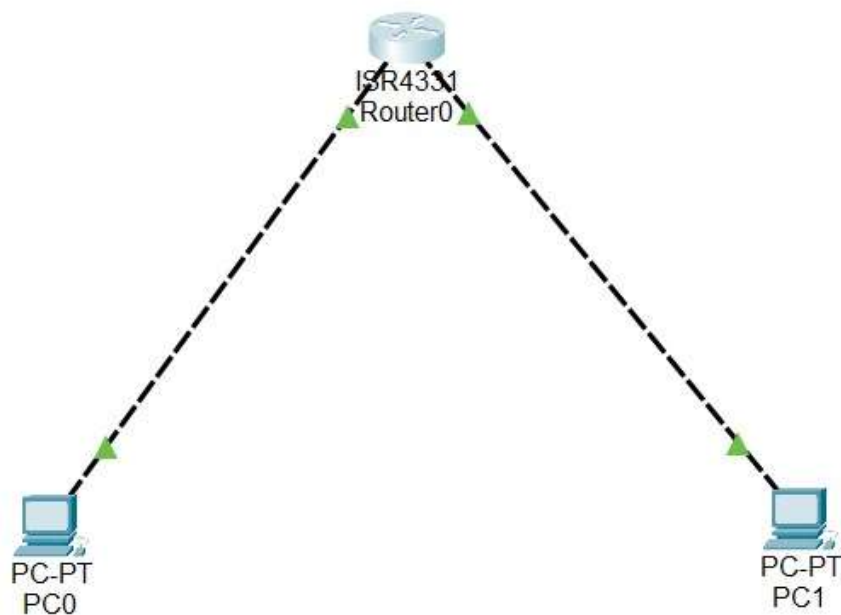
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up

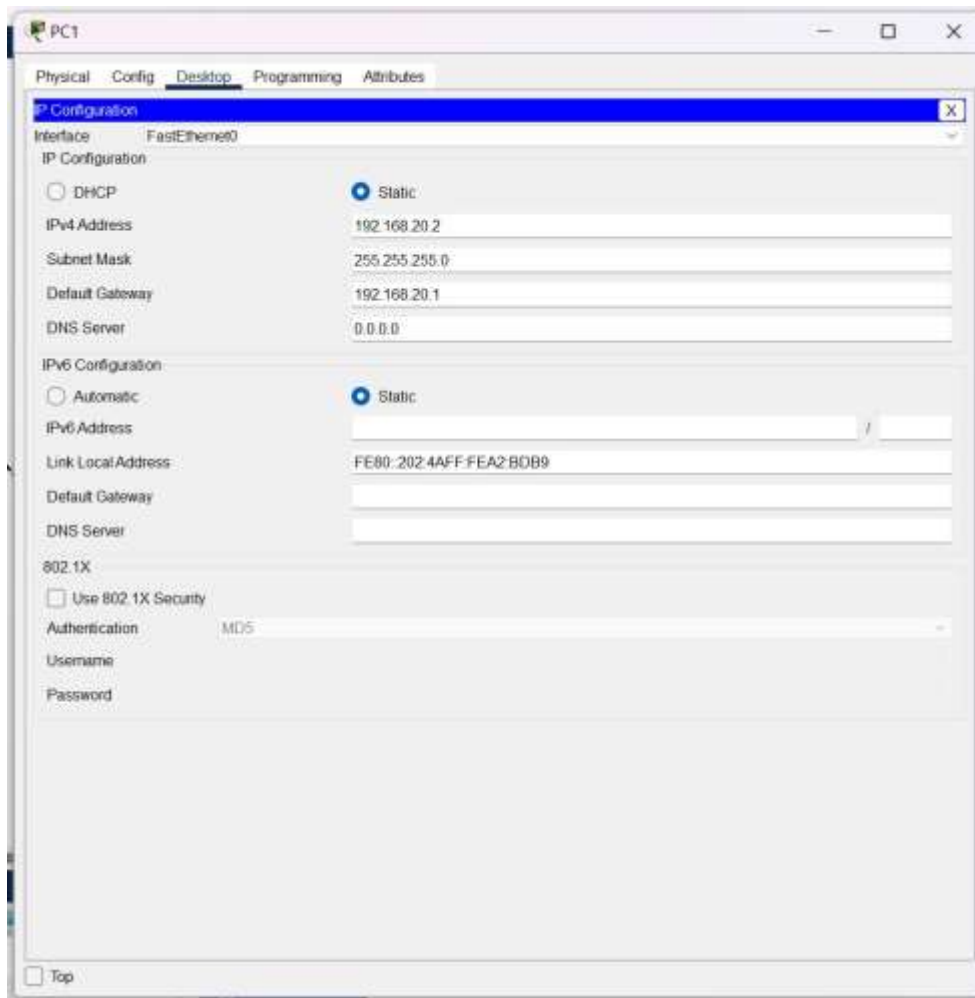
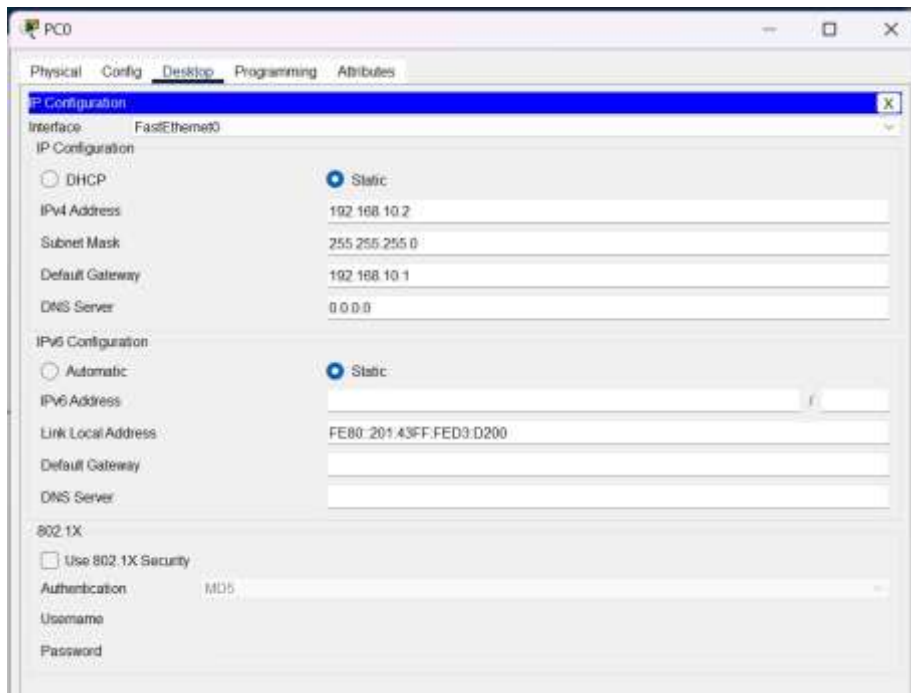
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up

Router(config-if)#exit

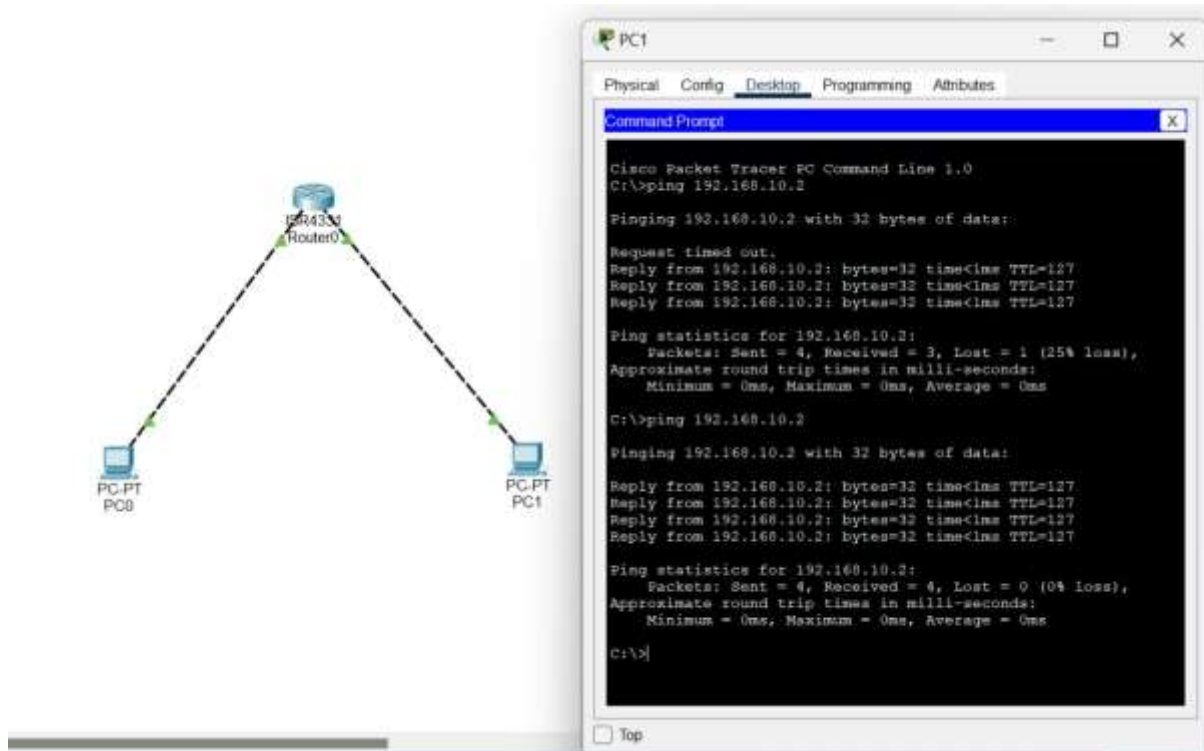
```

After typing the above commands on the Router, the connection is successful indicated by the green triangles on the cables below.





Pinging from PC1 to PC0:



STEP 3:

BASIC ROUTER SETUP

Setting passwords/authentication to the router

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname GATEWAY
GATEWAY(config)#enable secret cisco
GATEWAY(config)#service password-encryption
GATEWAY(config)#line console 0
GATEWAY(config-line)#password cisco
GATEWAY(config-line)#login
GATEWAY(config-line)#logging synchronous
GATEWAY(config-line)#exec-timeout 2 45
GATEWAY(config-line)#history size 10
```