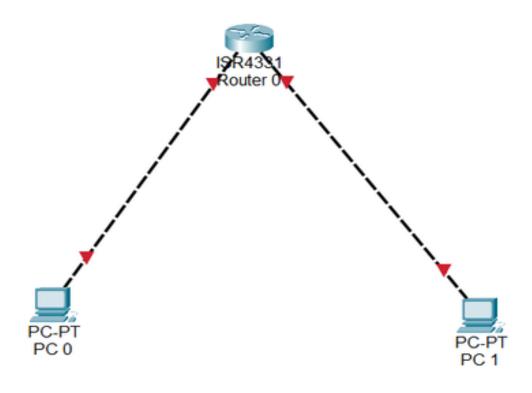
COMPUTER NETWORKS LAB 3

STEPS TAKEN:

STEP 1:

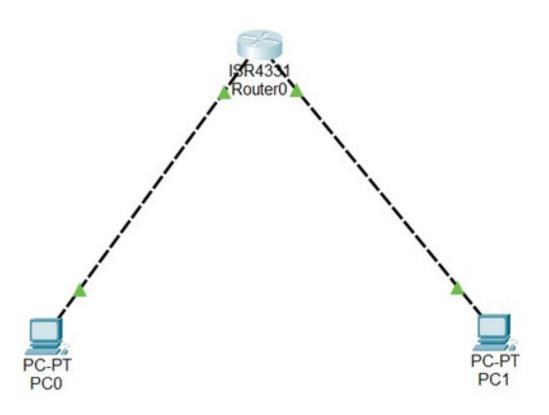


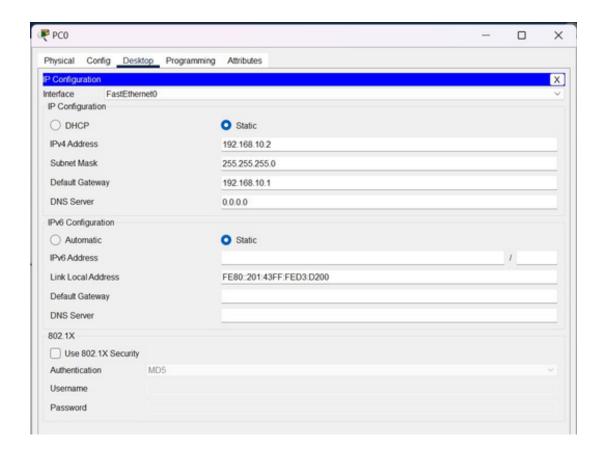
Dragged a ISR4331 Switch and 2 PCs on to the canvas and used Copper Cross-over cable to connect each PC's port FastEthernet0/0 to the router's GigabitEthernet0/0/0 and 0/0/1 respectively.

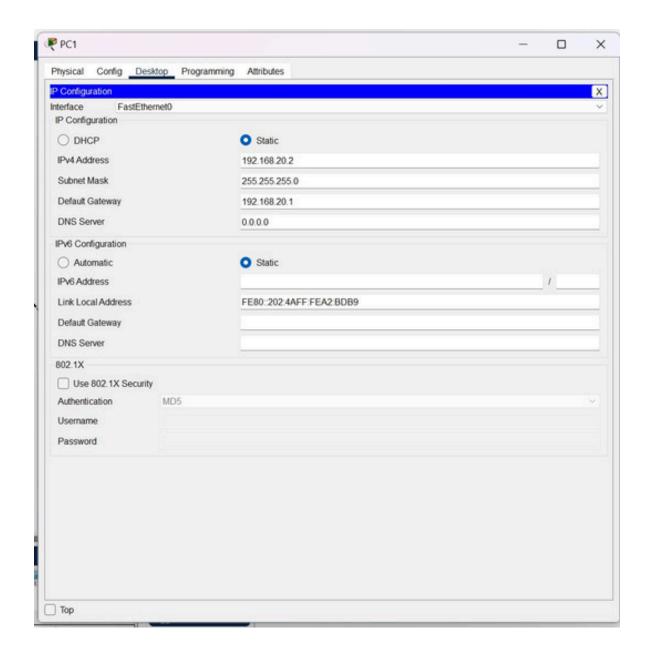
STEP 2:

```
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
```

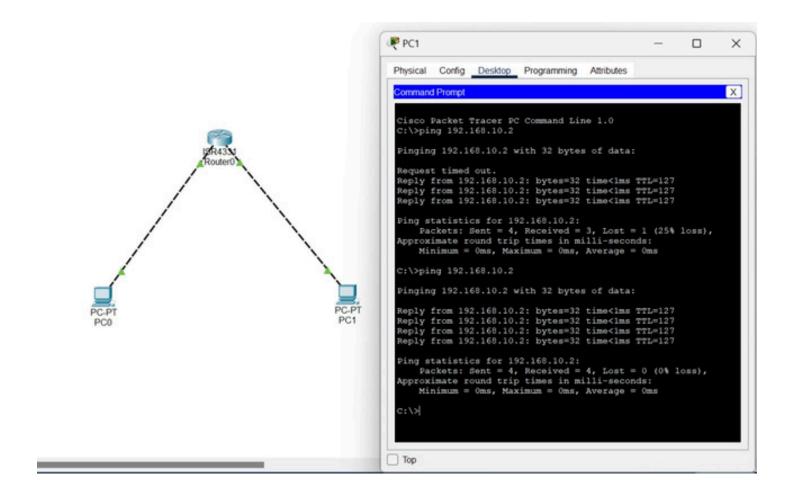
After typing the above commands on the Router, the connection is successful indicated by the green triangles on the cables below.







Pinging from PC1 to PC0:



STEP 3:

BASIC ROUTER SETUP

Setting passwords/authentication to the router

```
Router = 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) = loging synchronous
GATEWAY(config = line) = exec = timeout 2 45
GATEWAY(config = line) = line) = loging size 10
```