**COMPUTER NETWORKS**

**NAME: M.ISTAFA MALIK**

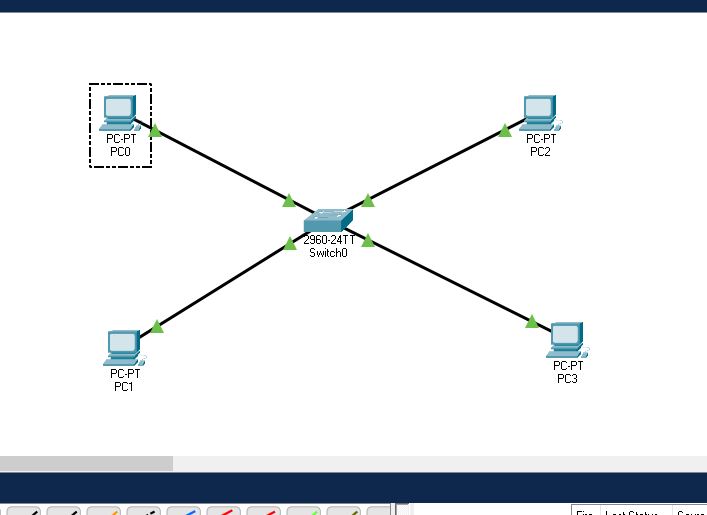
**ROLL: P190033**

**SECTION: BSCS-5A**

Task: Perform communication of four devices using switch

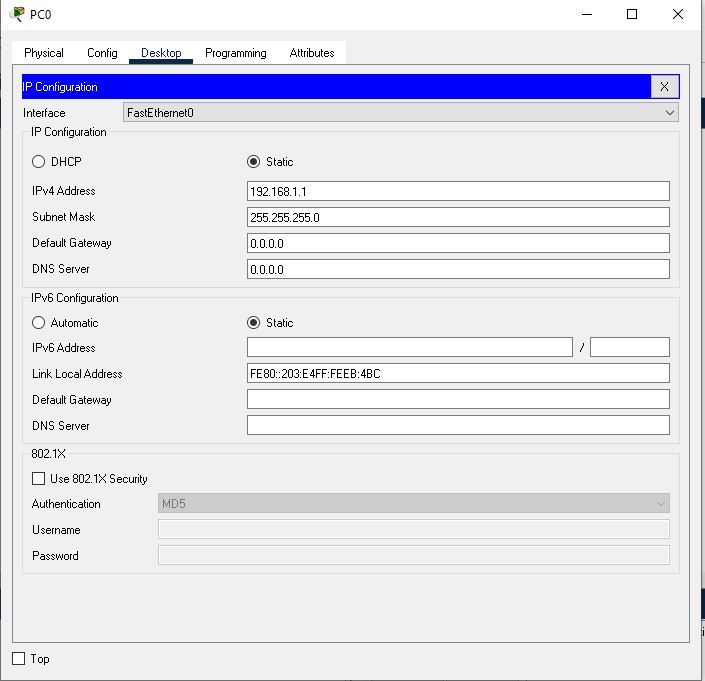
Solution:

Step 1Topology:

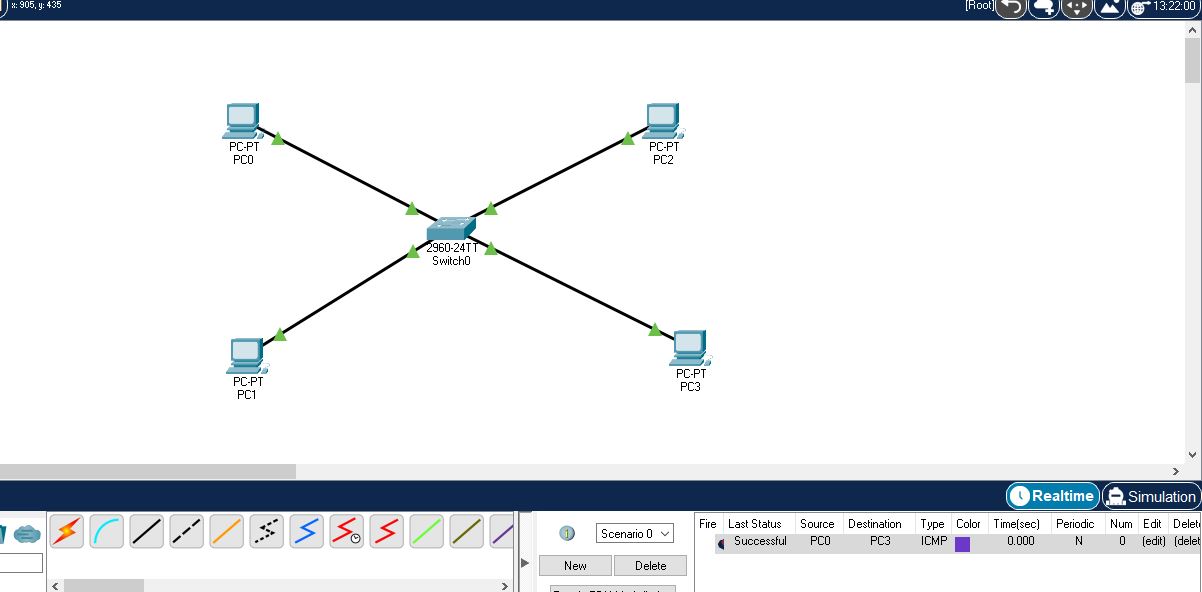


Step 2:

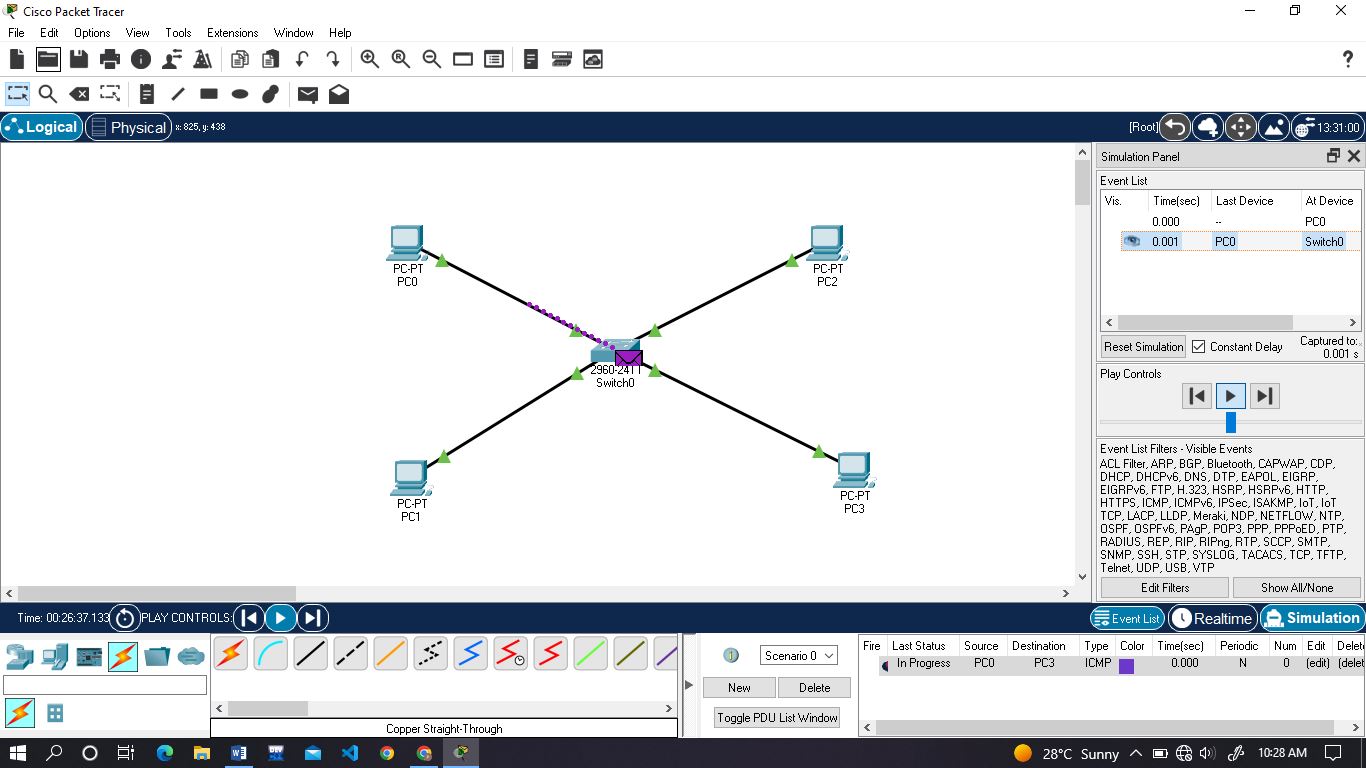
Assign IP’s to all end devices (PC’s) by clicking on the PC and then clicking the IP configuration option in the Desktop Box, like shown in the picture below.

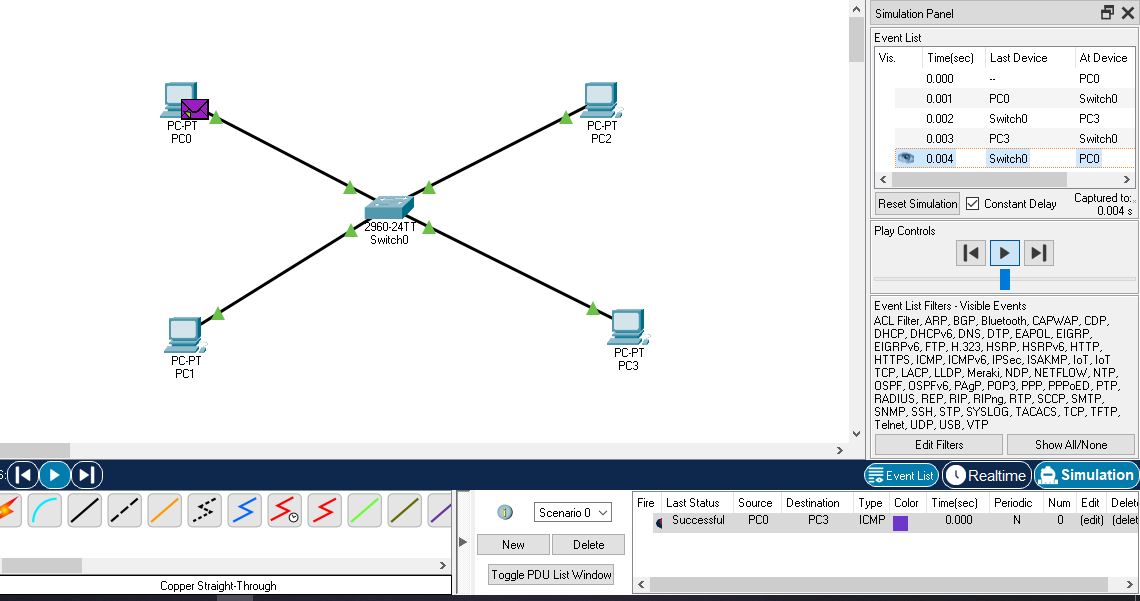


Step 3: Run it in real time to check if it’s working or not.



Step 4: Now run in simulation mode to understand it properly.

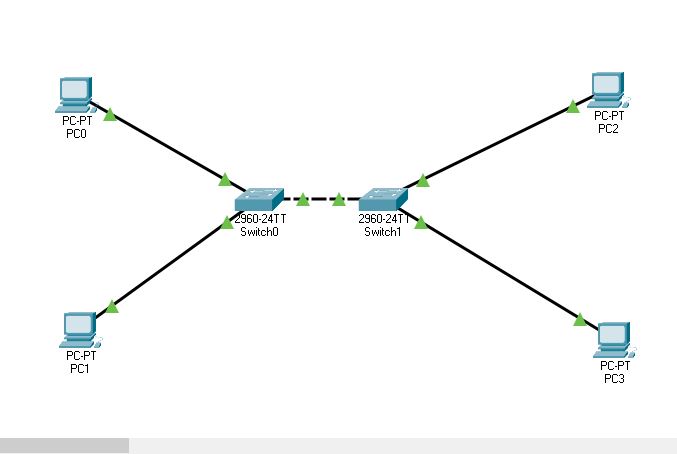




Task: Perform communication through multiple switches.

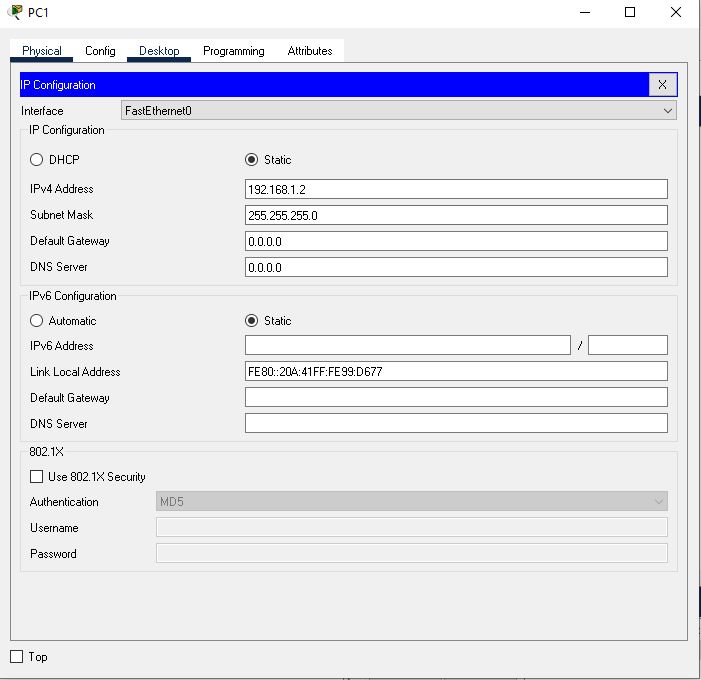
Solution:

Step 1: Topology

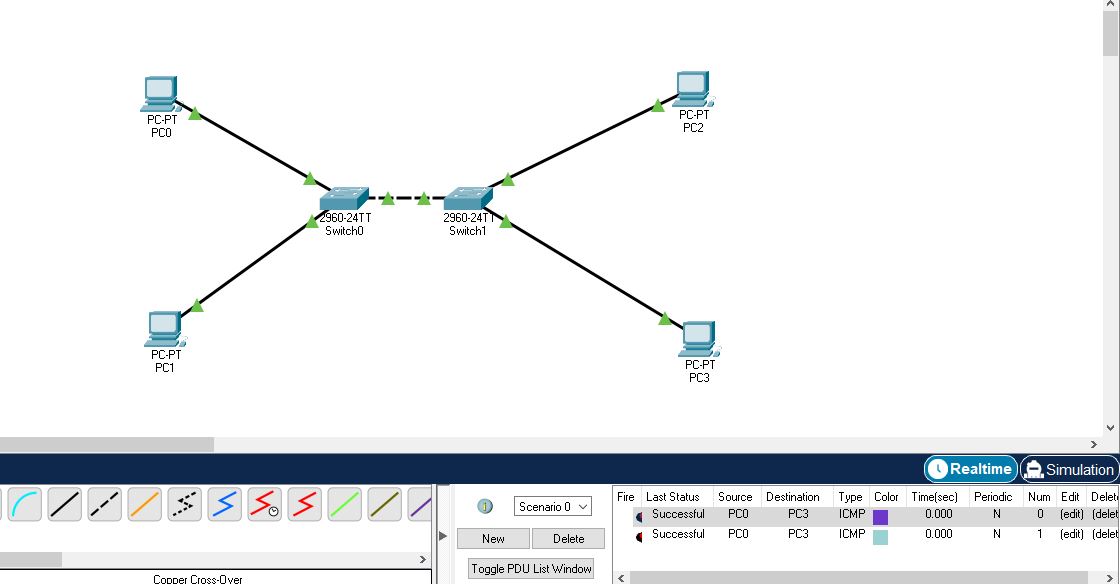


Step 2:

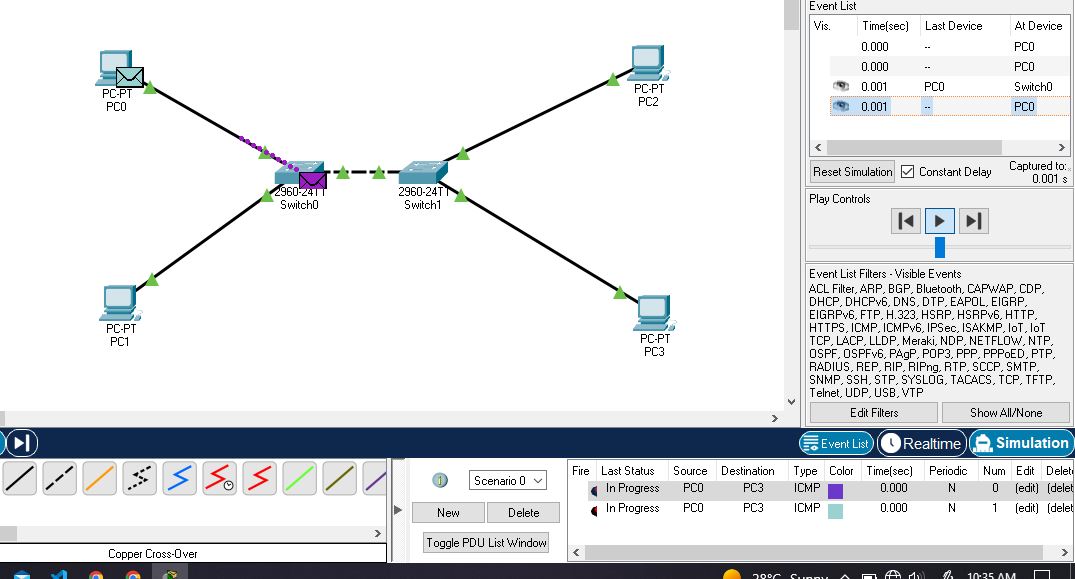
Assign IP’s to all end devices (PC’s) by clicking on the PC and then clicking the IP configuration option in the Desktop Box, like shown in the picture below.

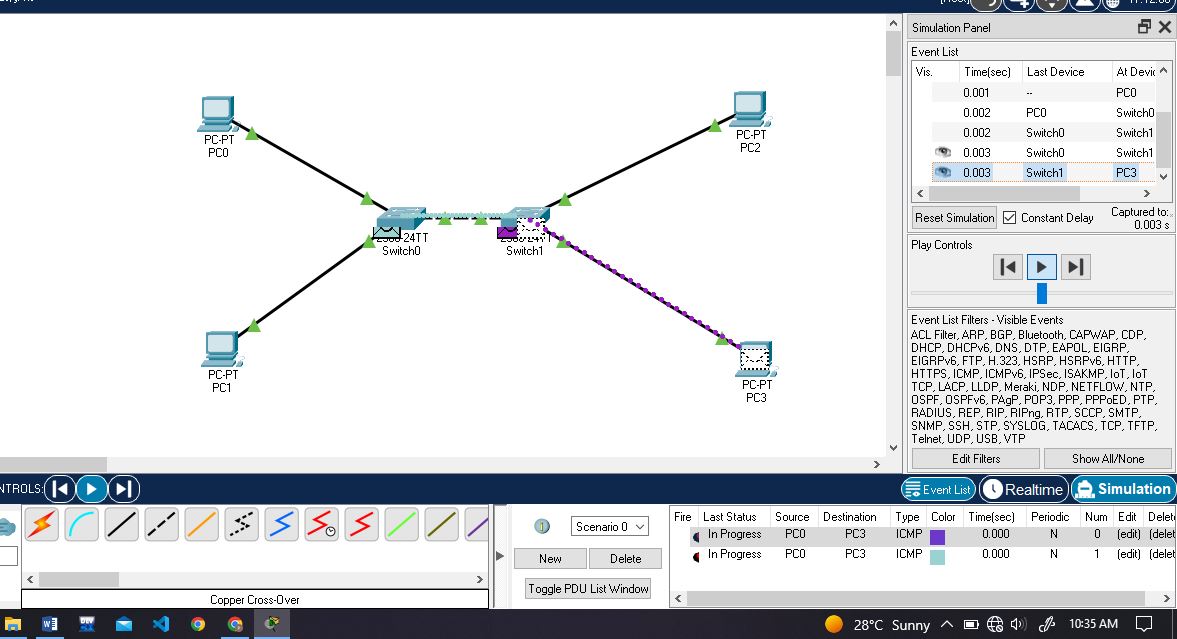


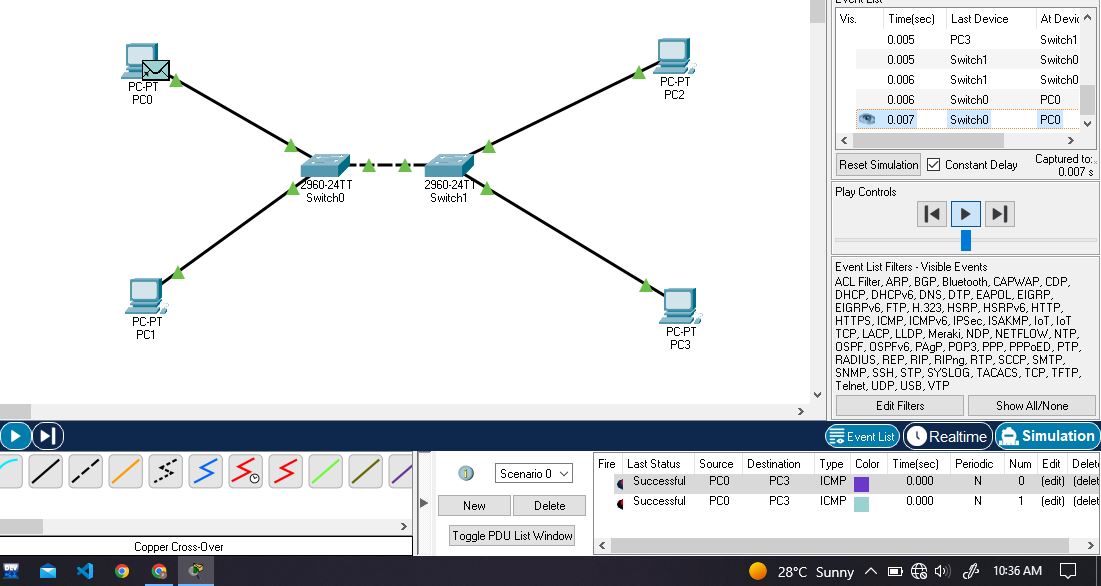
Step 3: Run it in real time to check if it’s working or not.



Step 4: Run it in simulation mode to understand it.



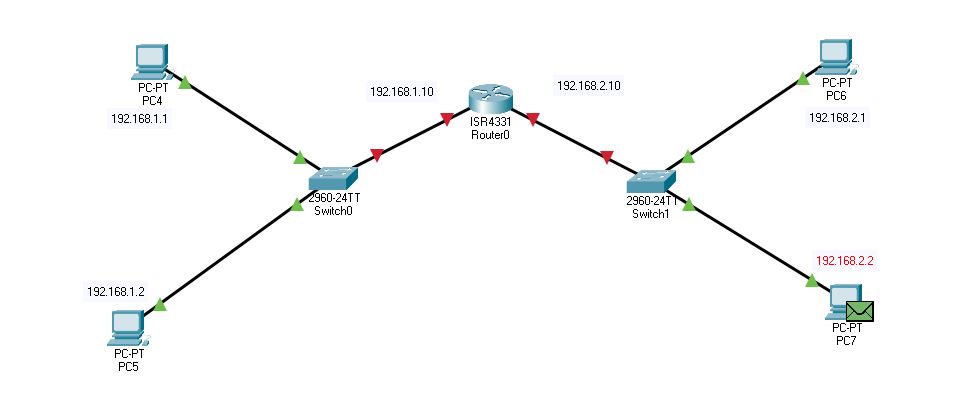




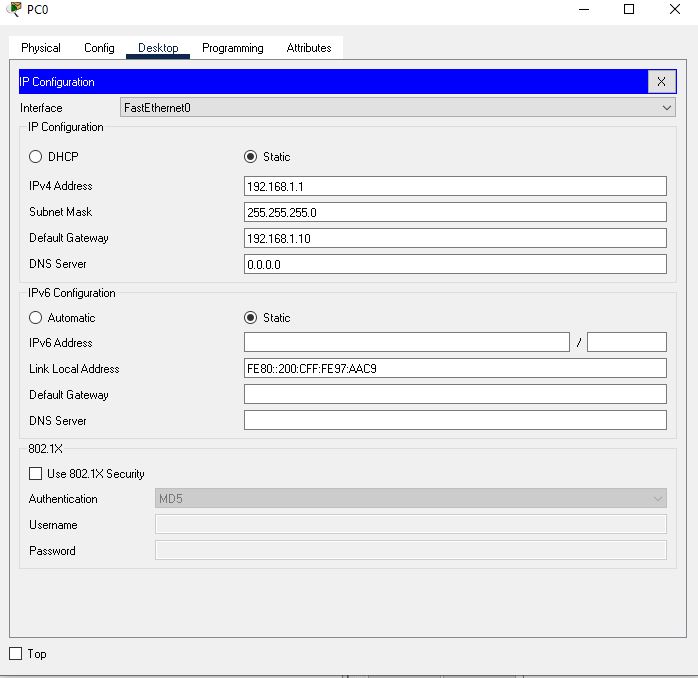
Task:

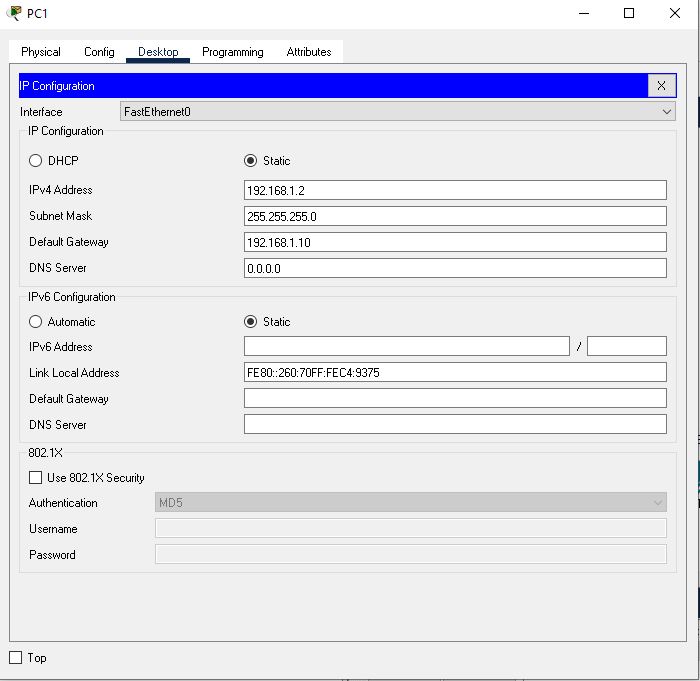
Solution:

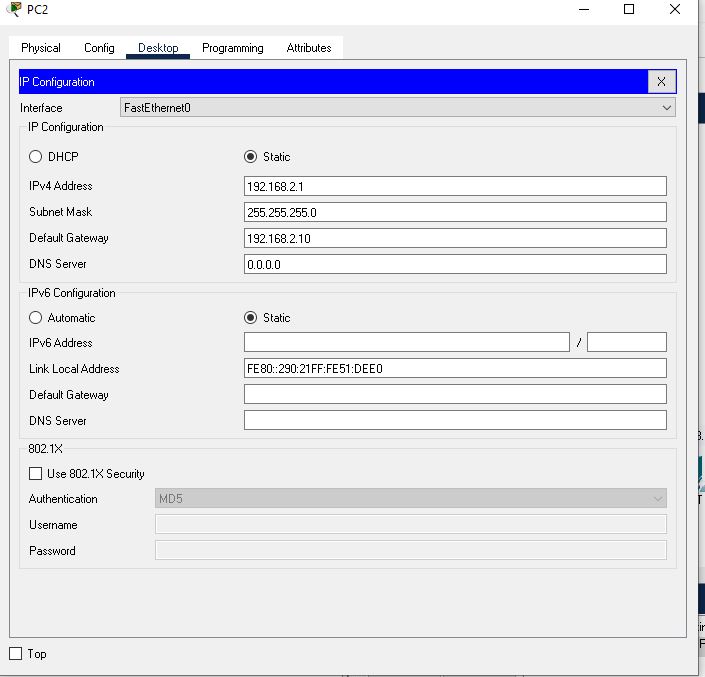
Step 1: Topology

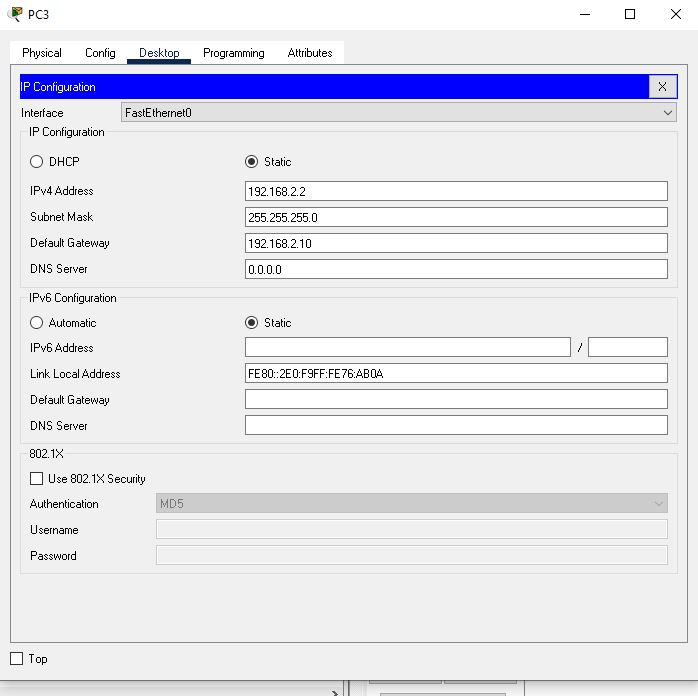


Step 2: Assign given IP’s to all PC’s and also assign default gateway to the PC with its associated Routers gateway.

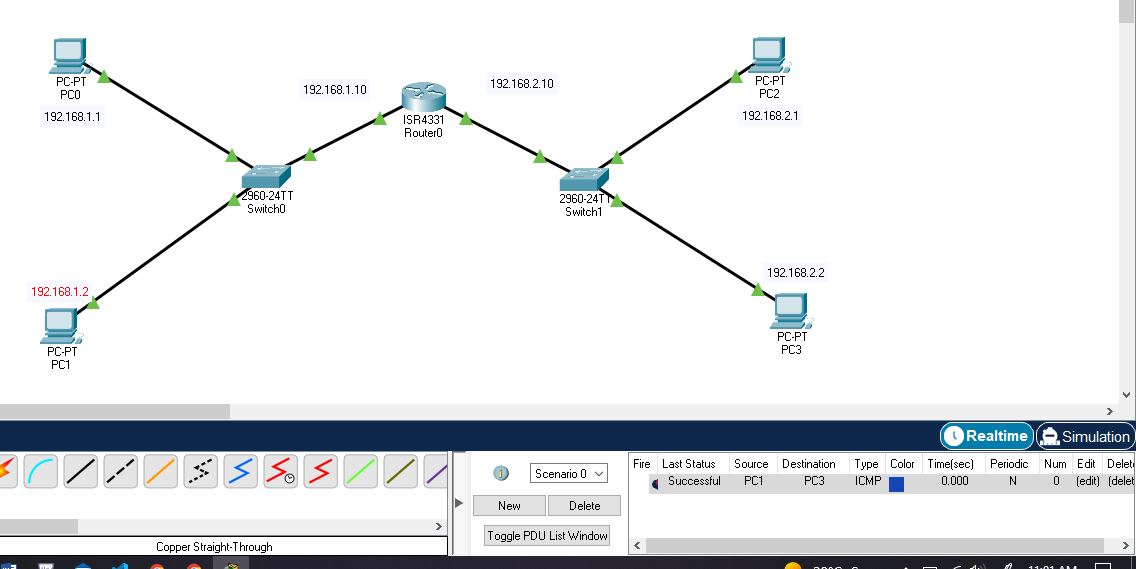




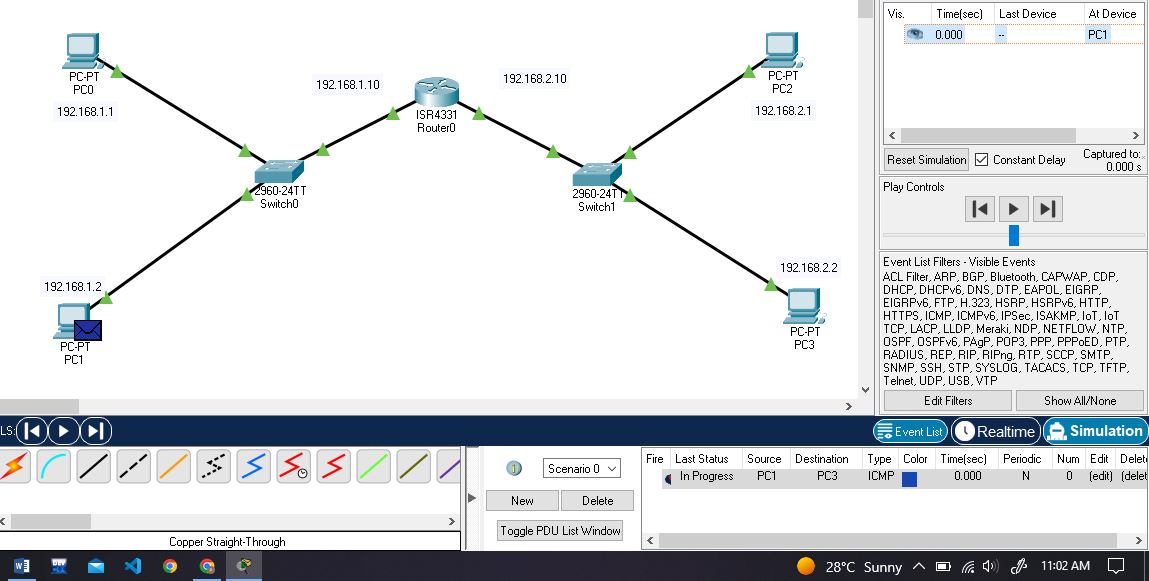


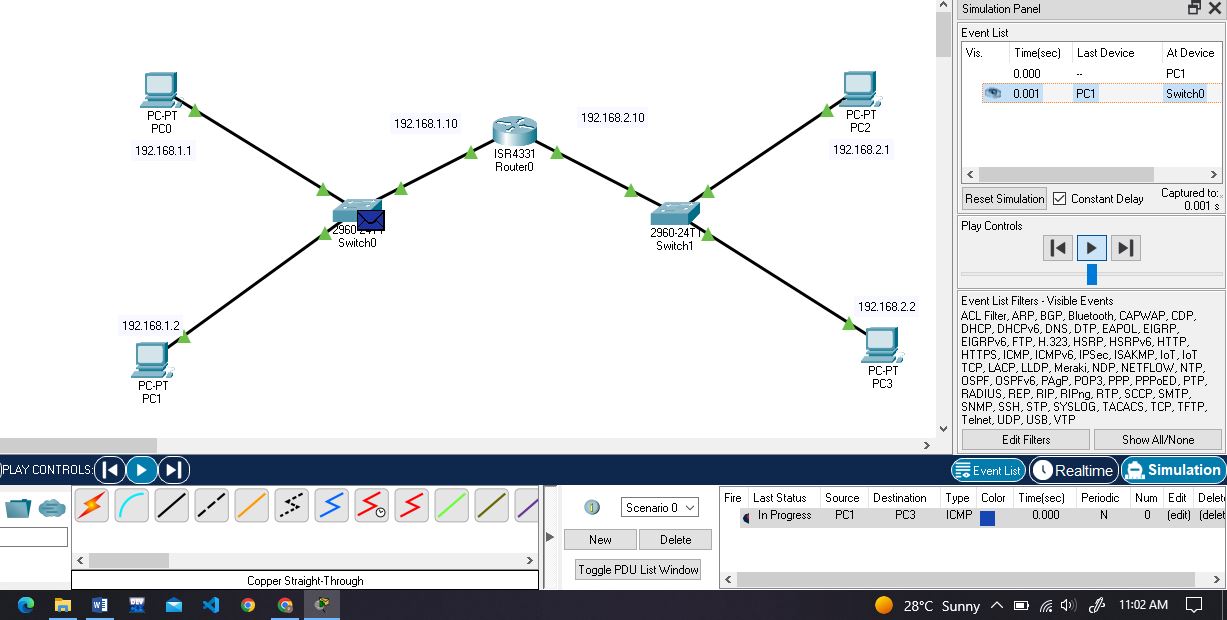


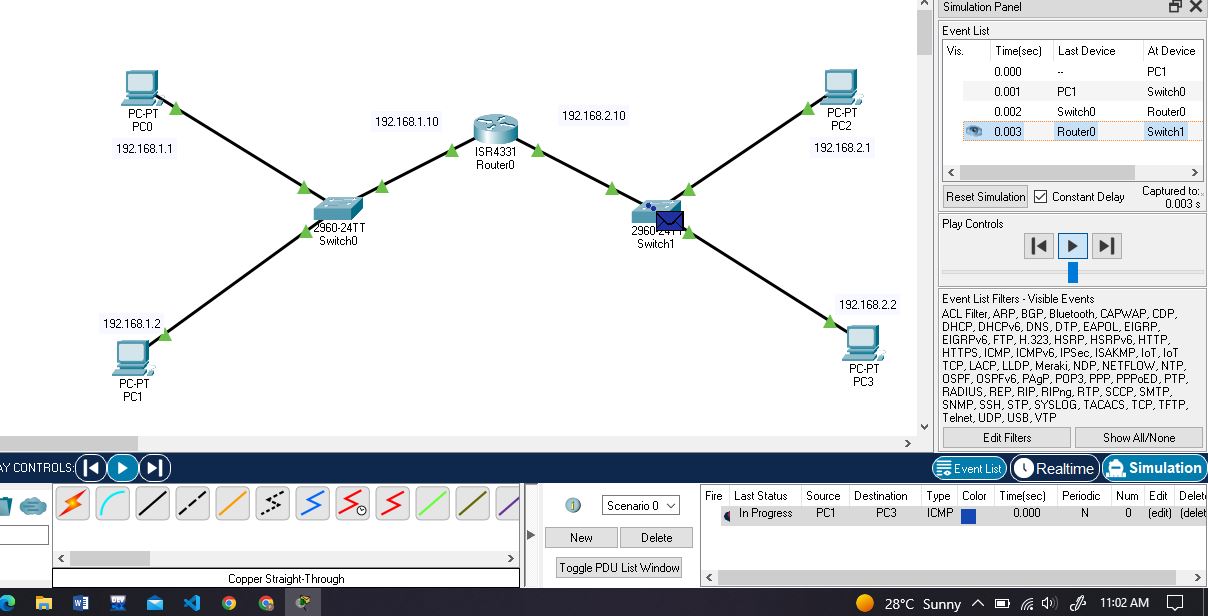
Step 3: Simulate in real time to check if it is working.

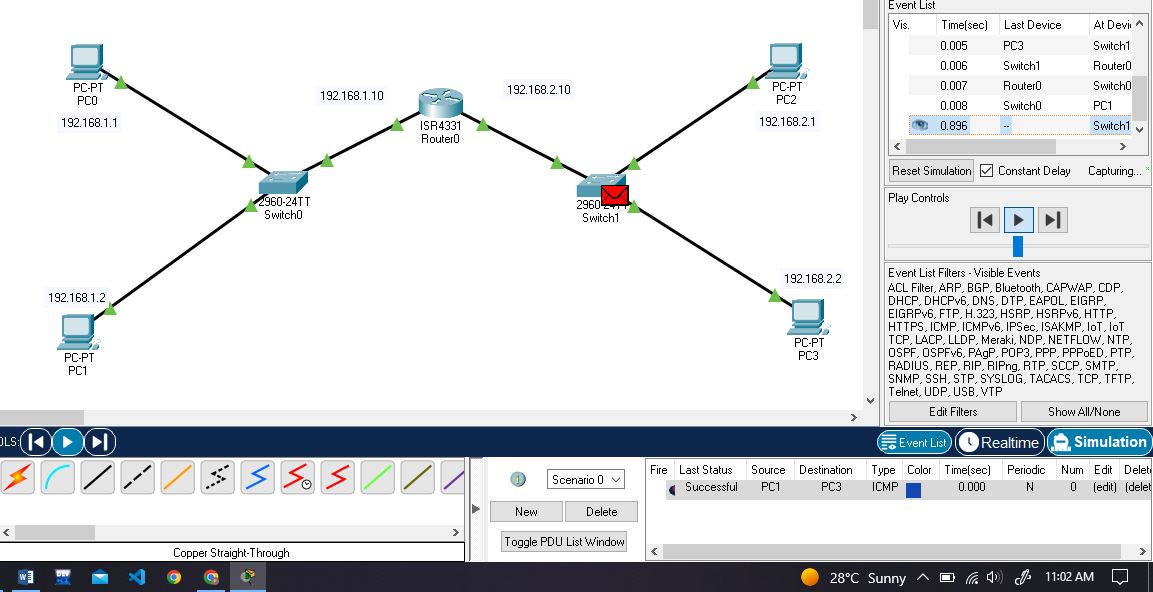


Step 4: Simulation mode to understand its working.





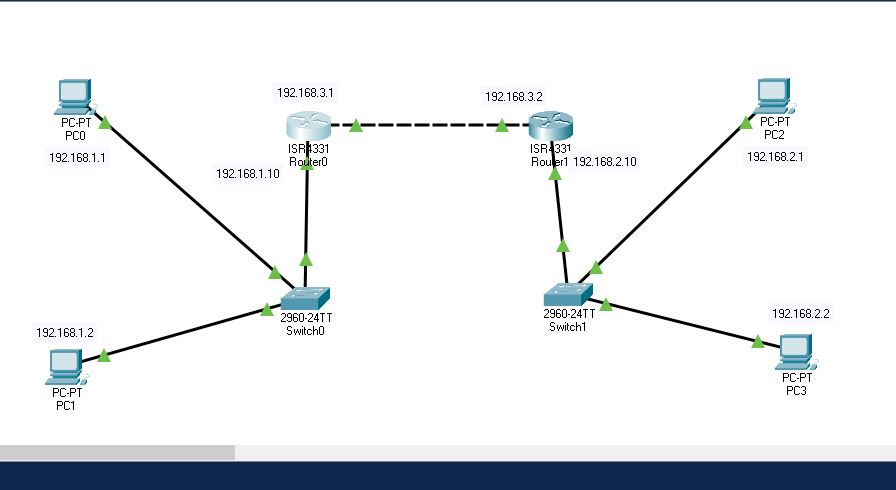


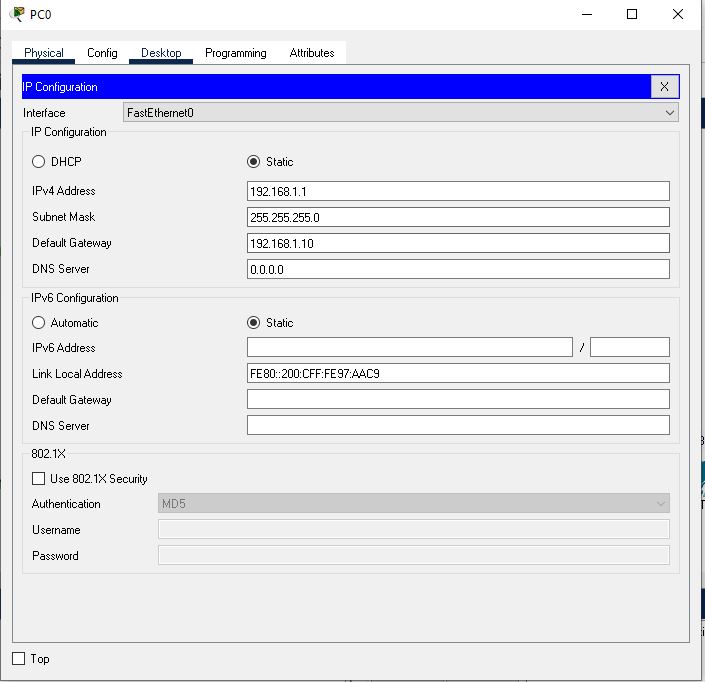


Task:

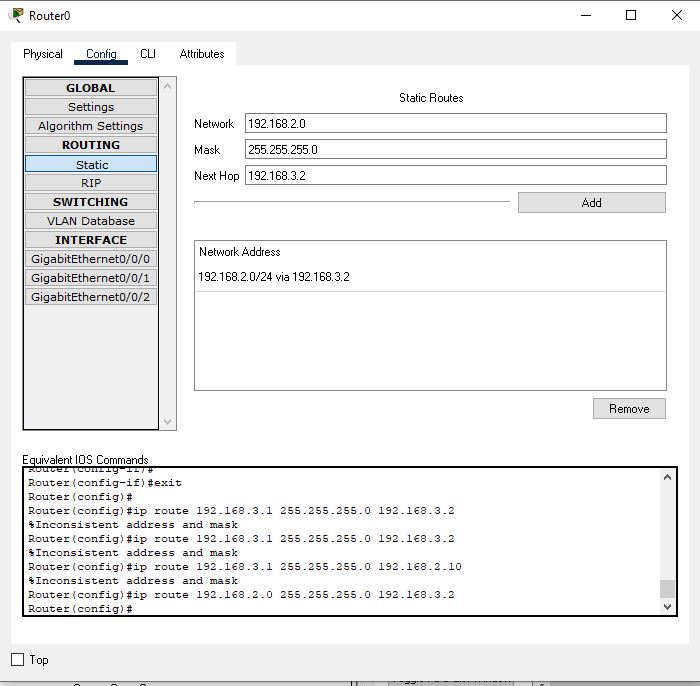
Solution:

Step 1: Topology

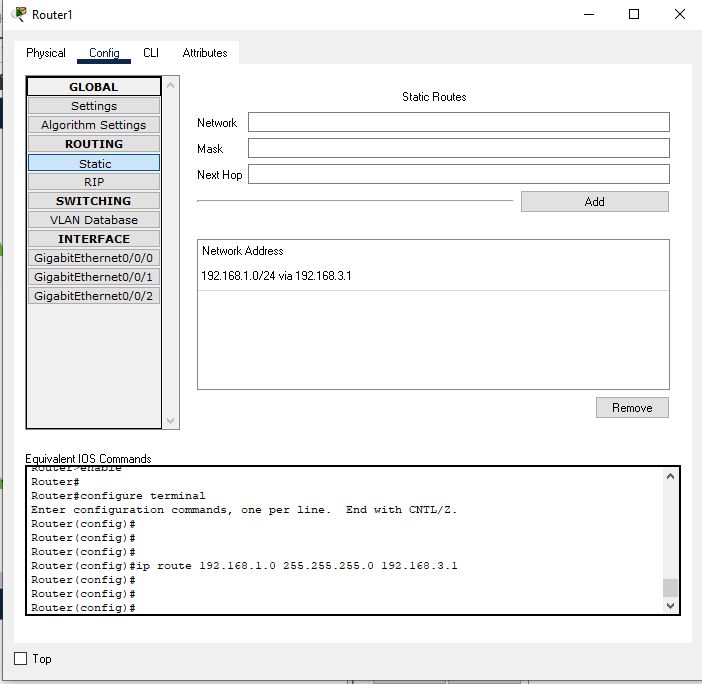


Step 2: Assign IP’s to all PC’s along with default gate way.  


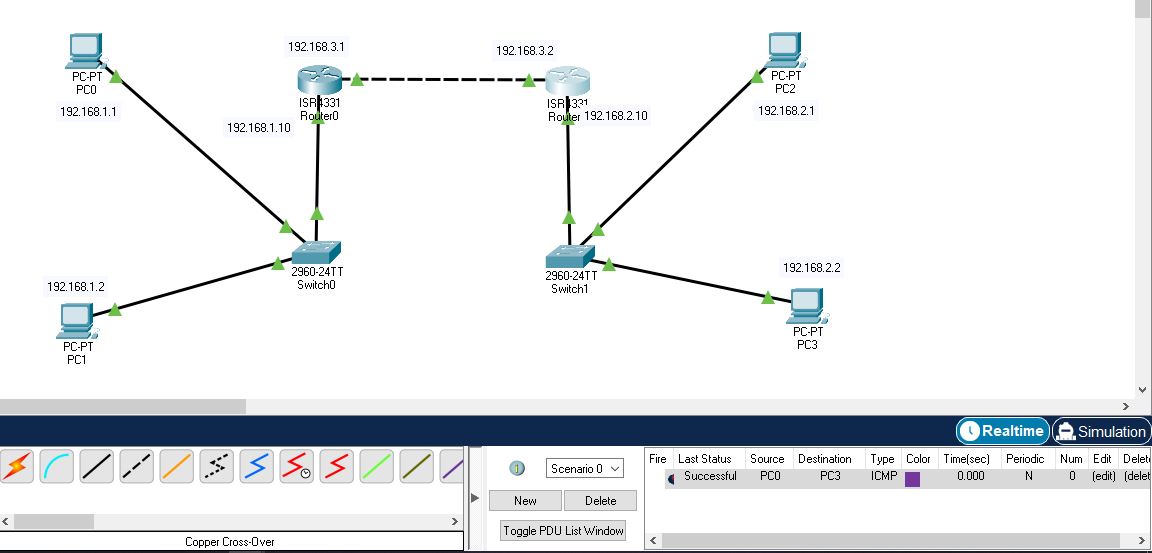
Step 3: Now configure router0 with the given data, by clicking configuration and then onto static in ROUTING option.



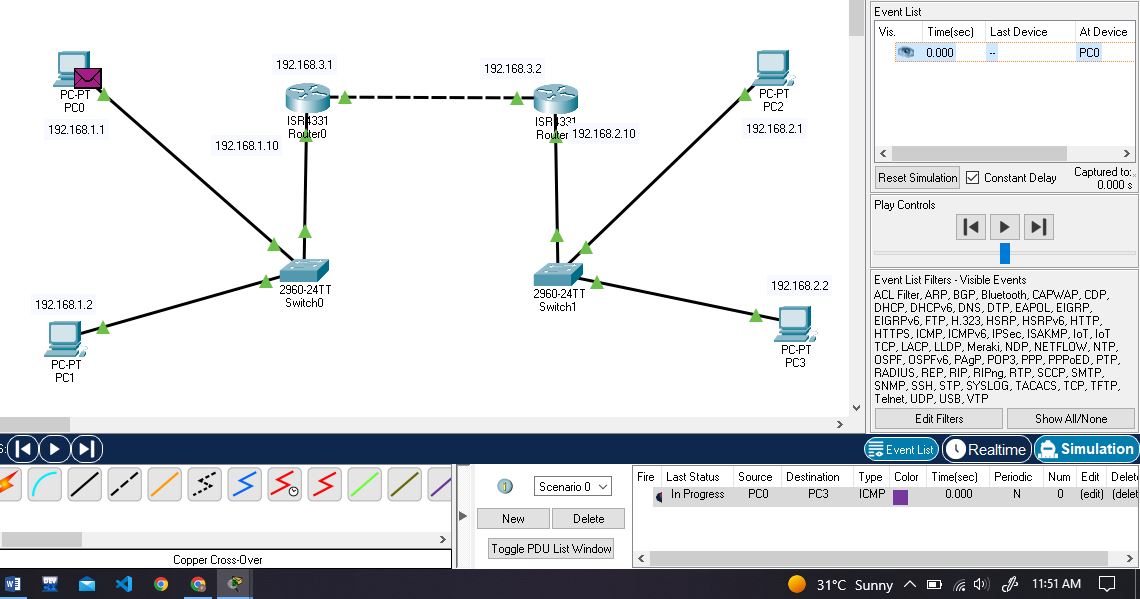
Do the same for router1.

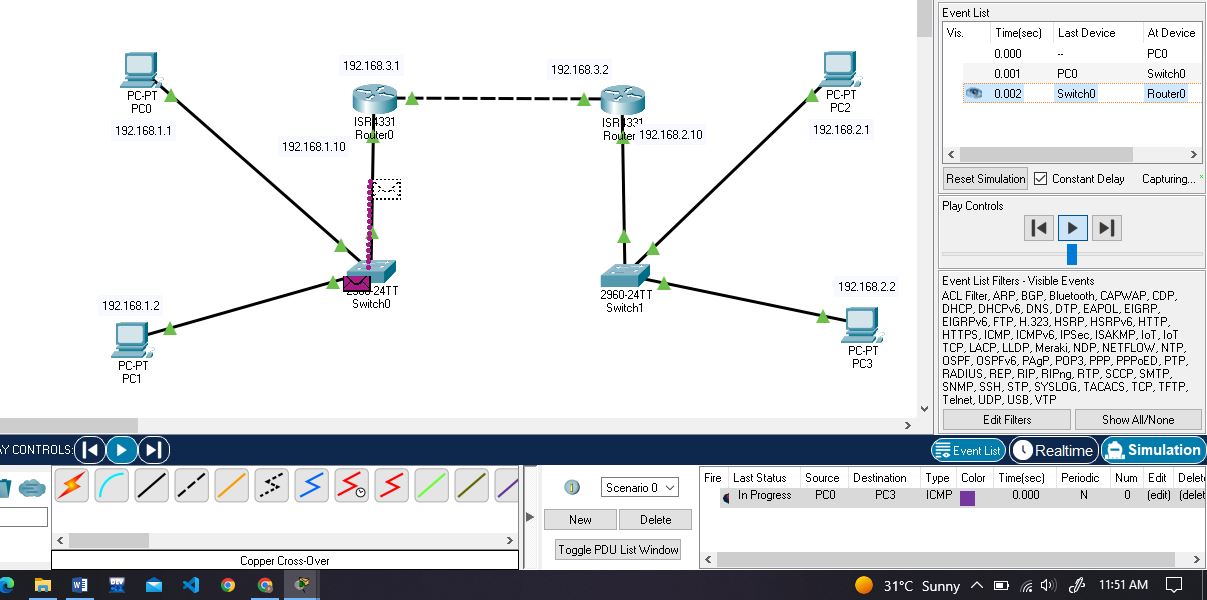


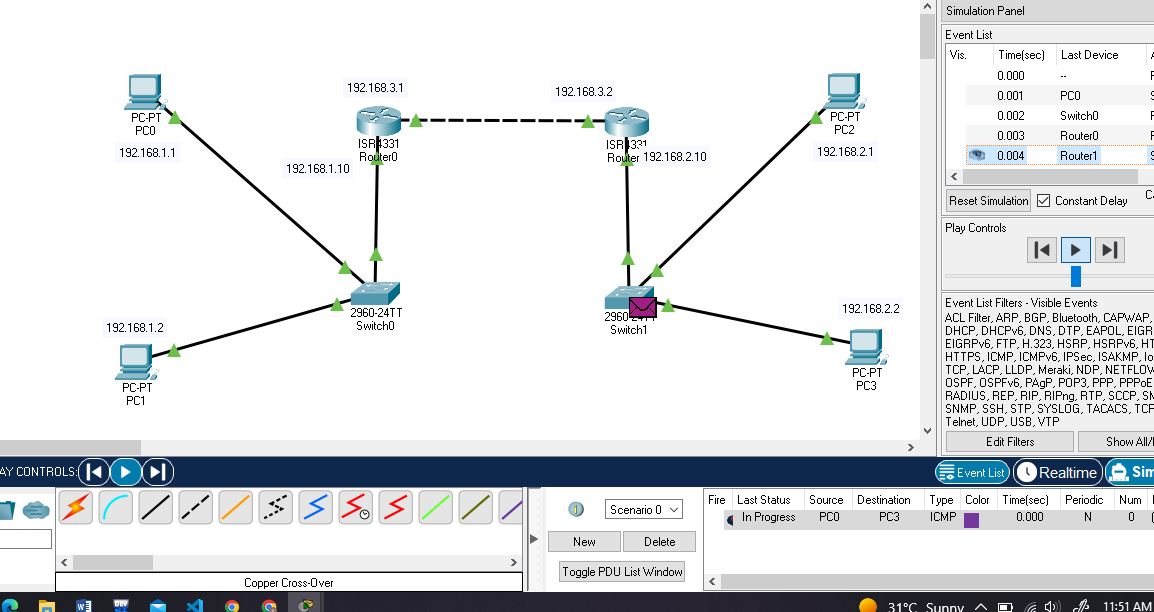
Step 4: Now send a packet in real time to see if it works or not.

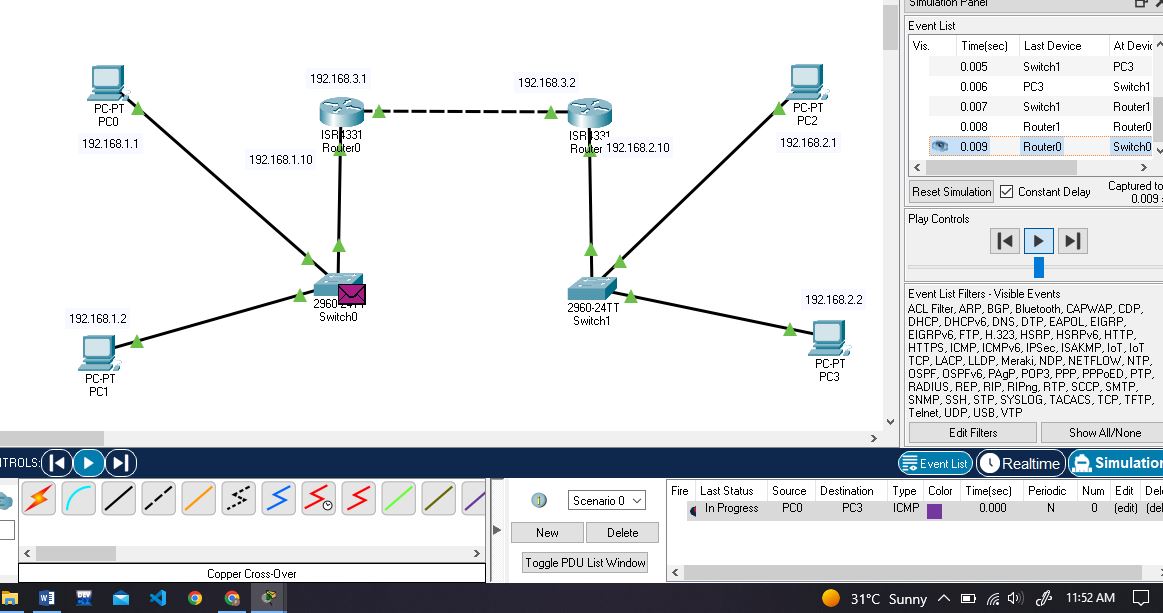


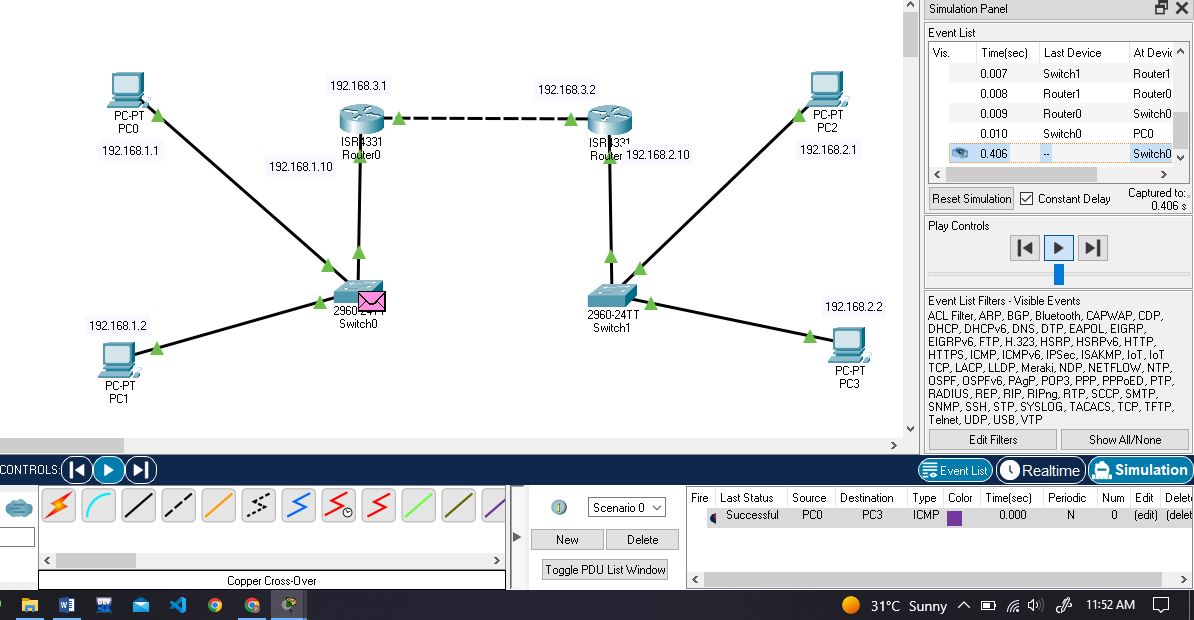
Step 5: Now use simulation mode to understand it.







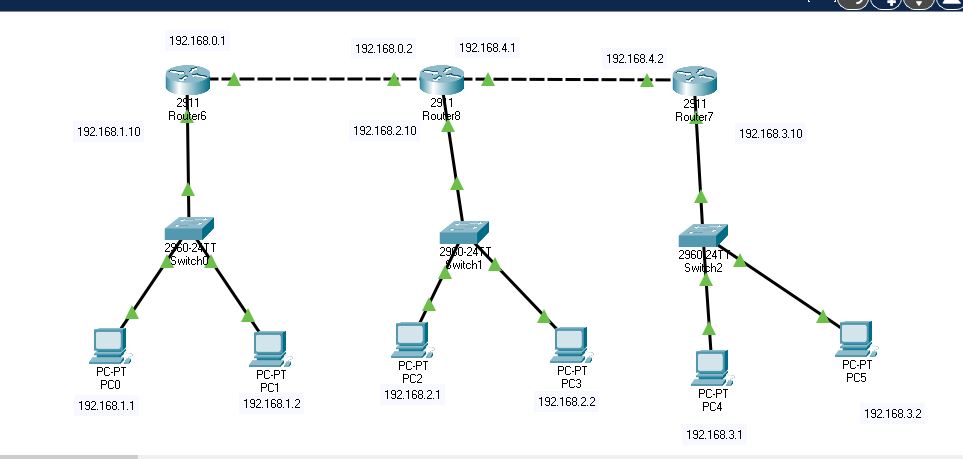




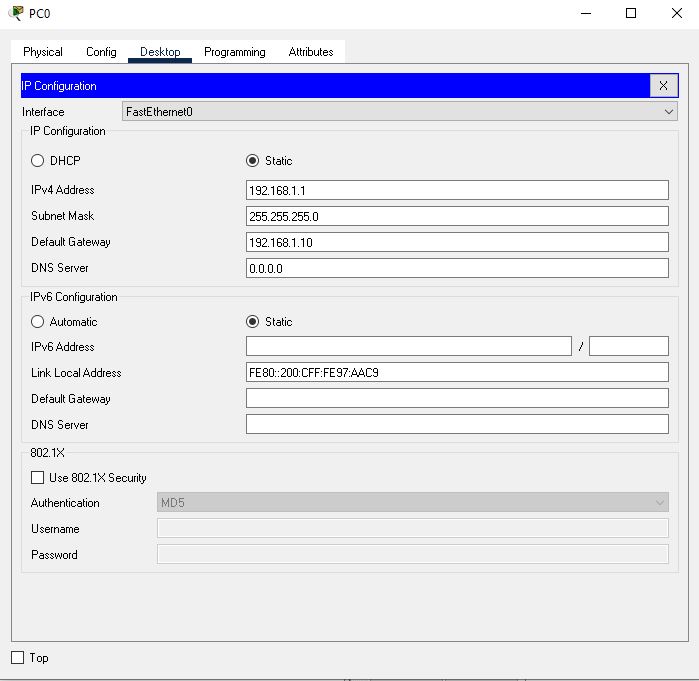
Task:

Solution:

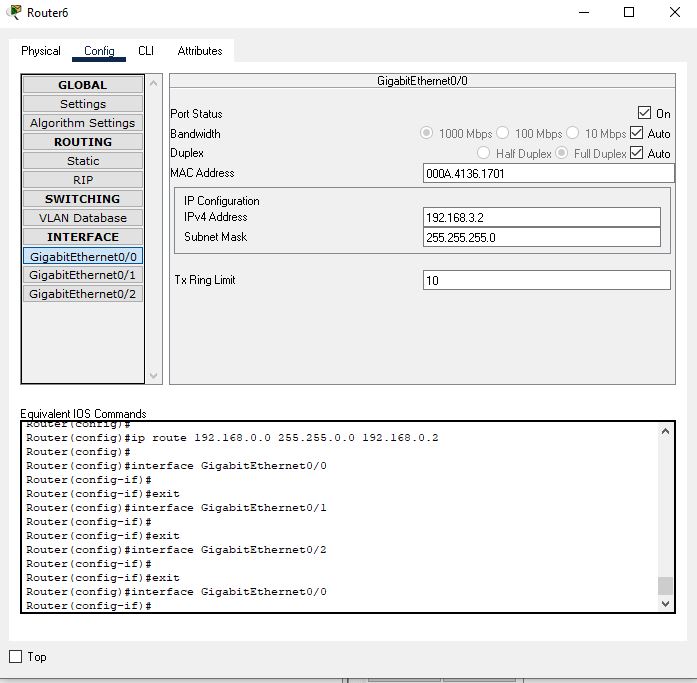
Step1: Topology

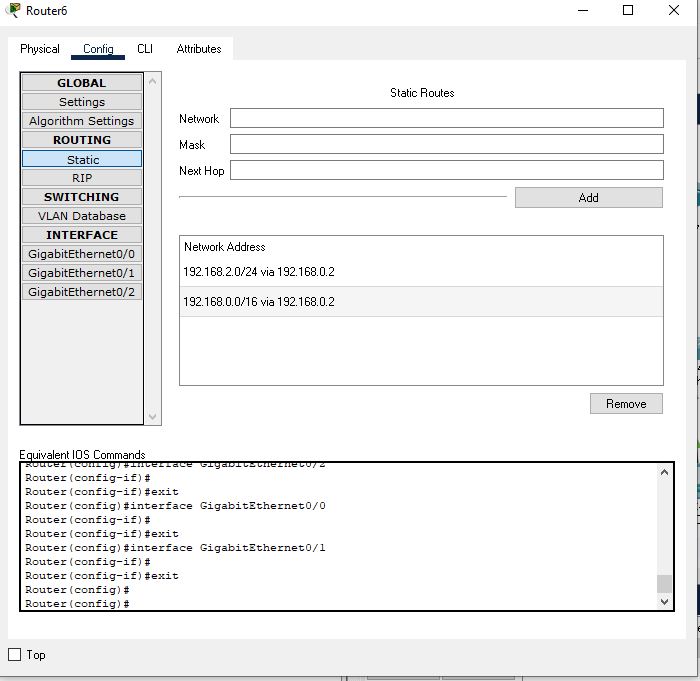


Step 2: Assign IP’s to all the PC’s and also default gateway.

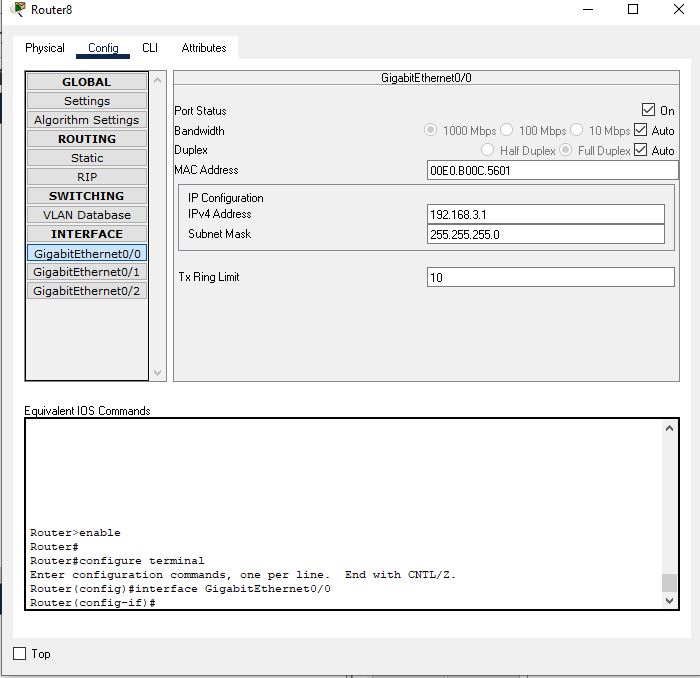


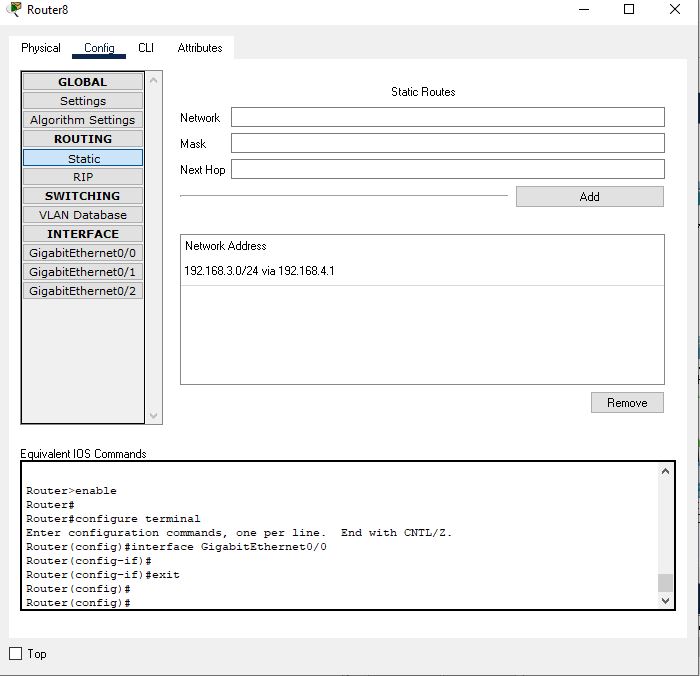
Step 3: Assign IP’s and configure router0.



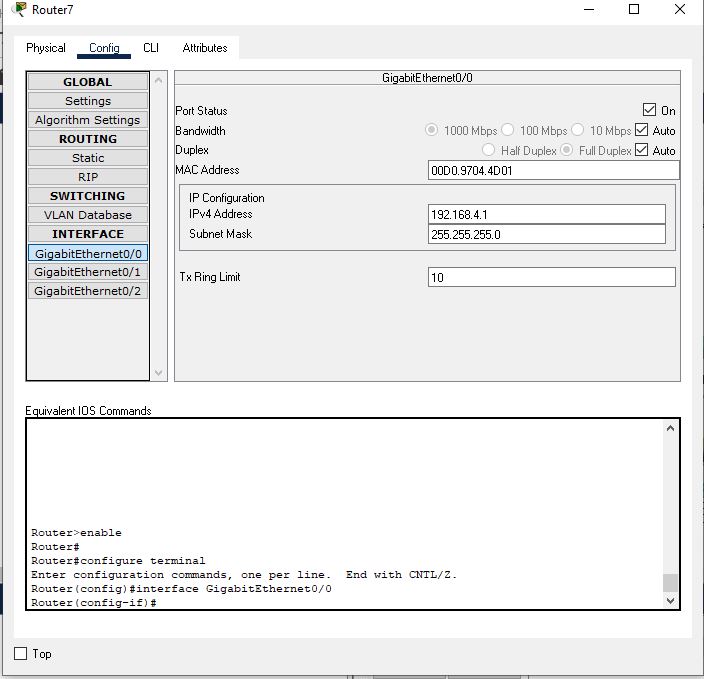


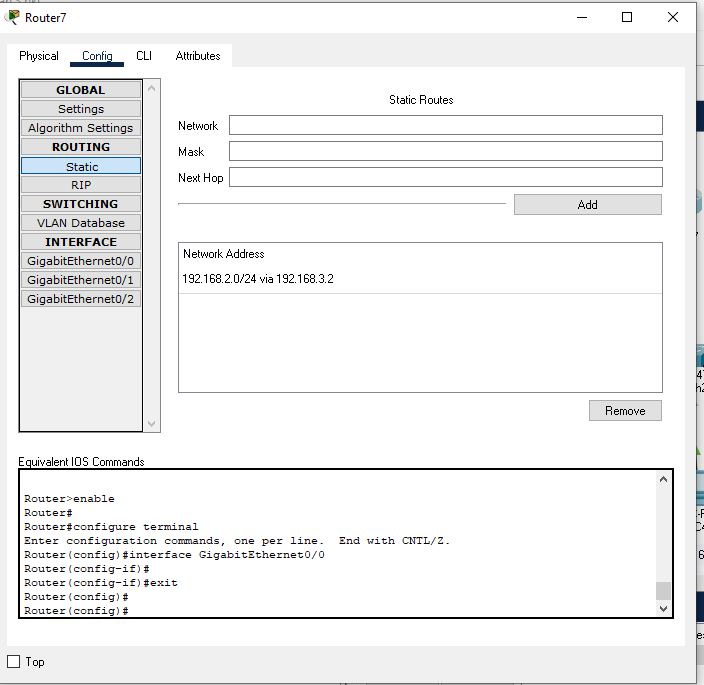
Do the same for router1



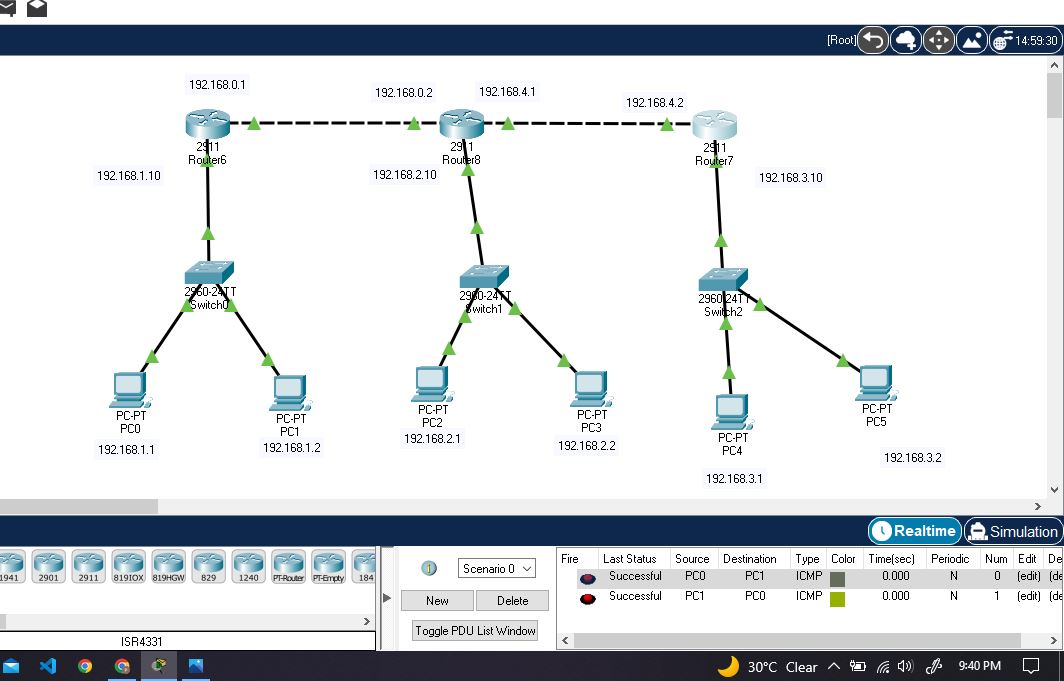


Do the same for router2





Step 4: Check in real time to see if it works or not.



Step 5: Use simulation mode to understand better.

