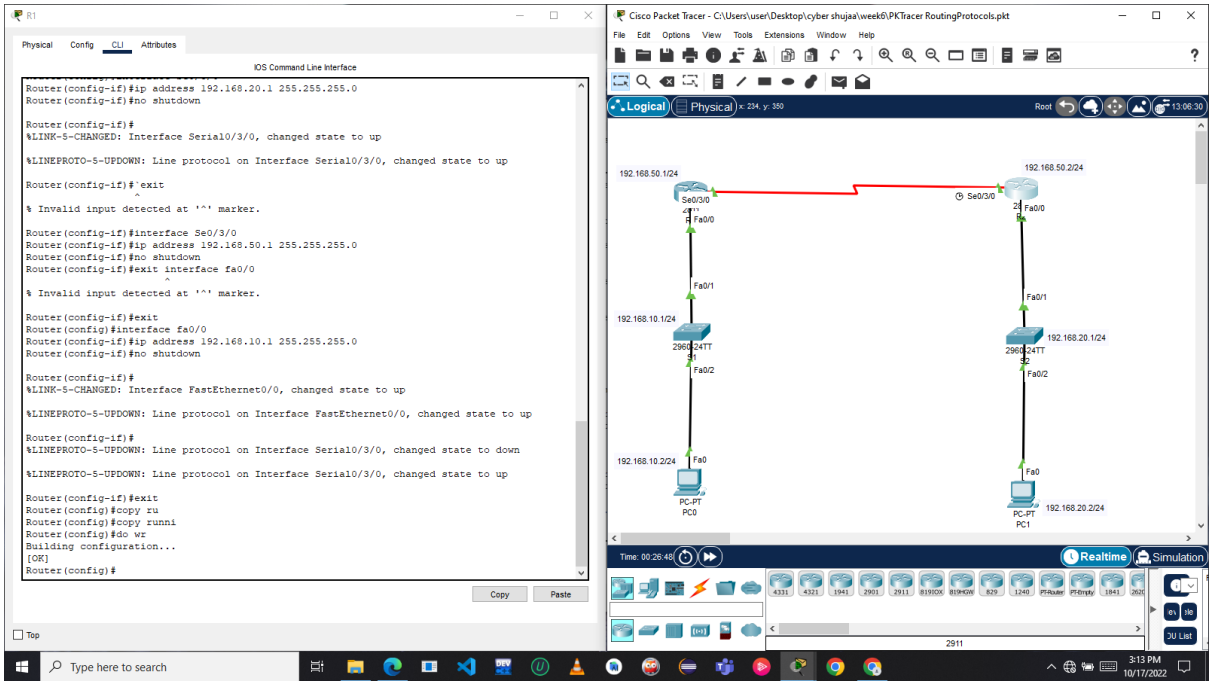
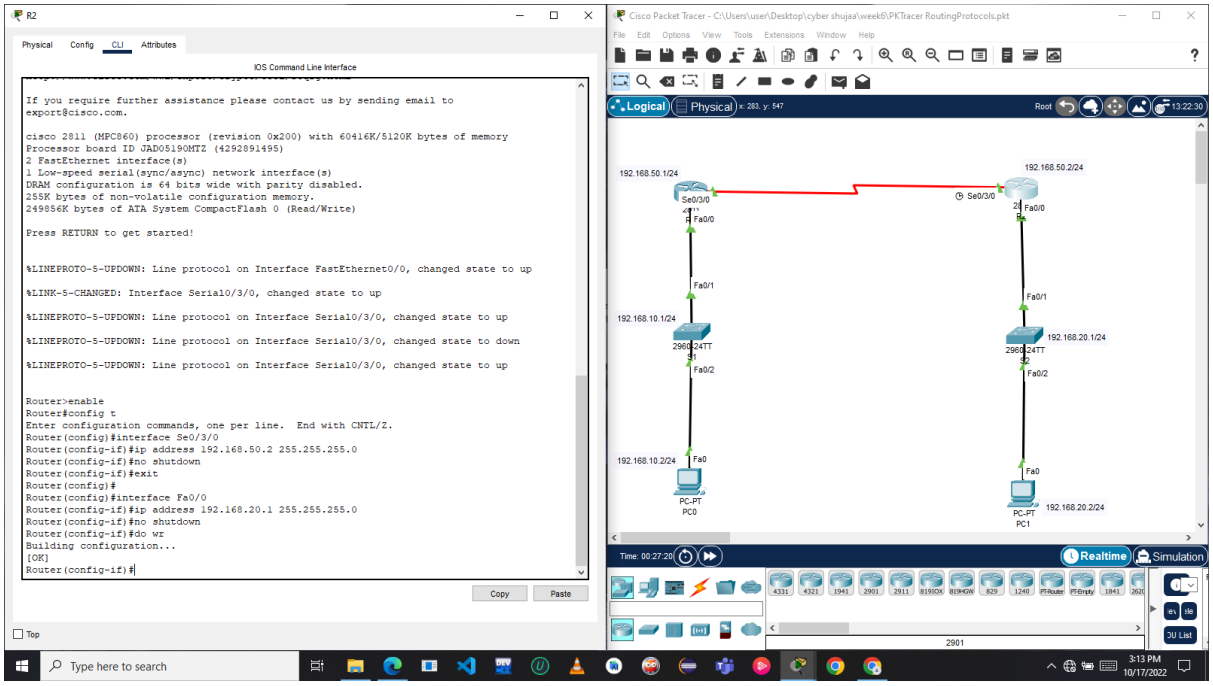
17 Dynamic Routing Protocols – Lab Exercise

Lab Topology





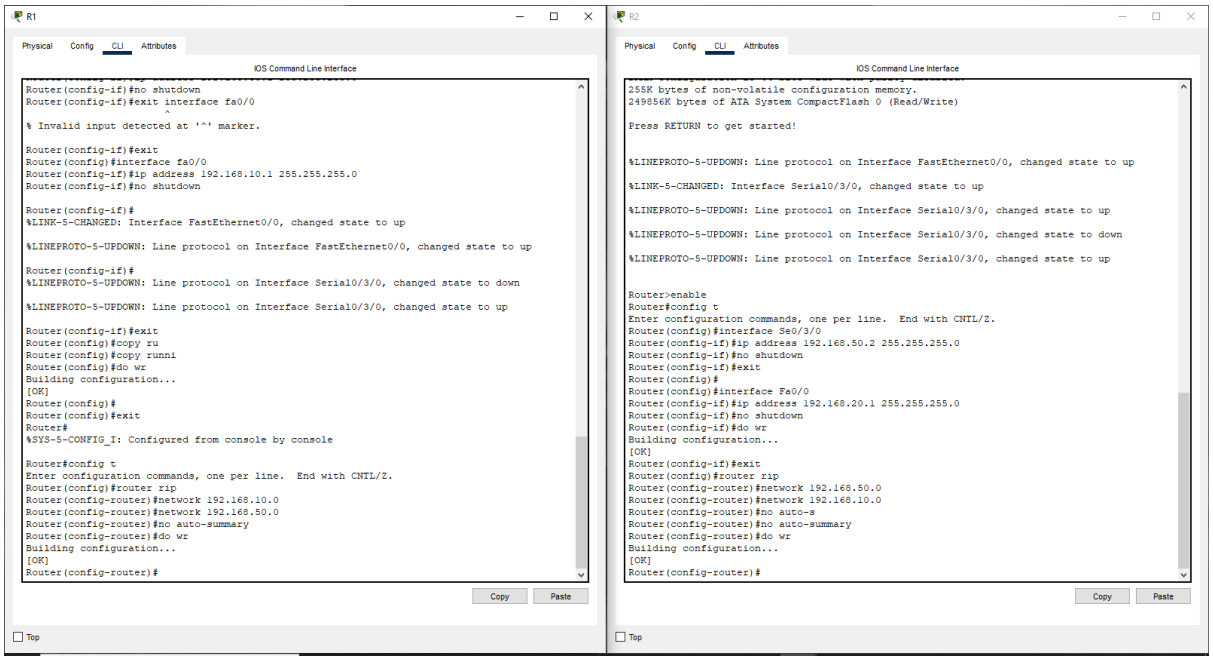
Enter the commands below on each router to provision a basic RIPv1 configuration and enable RIP on every interface.

router rip

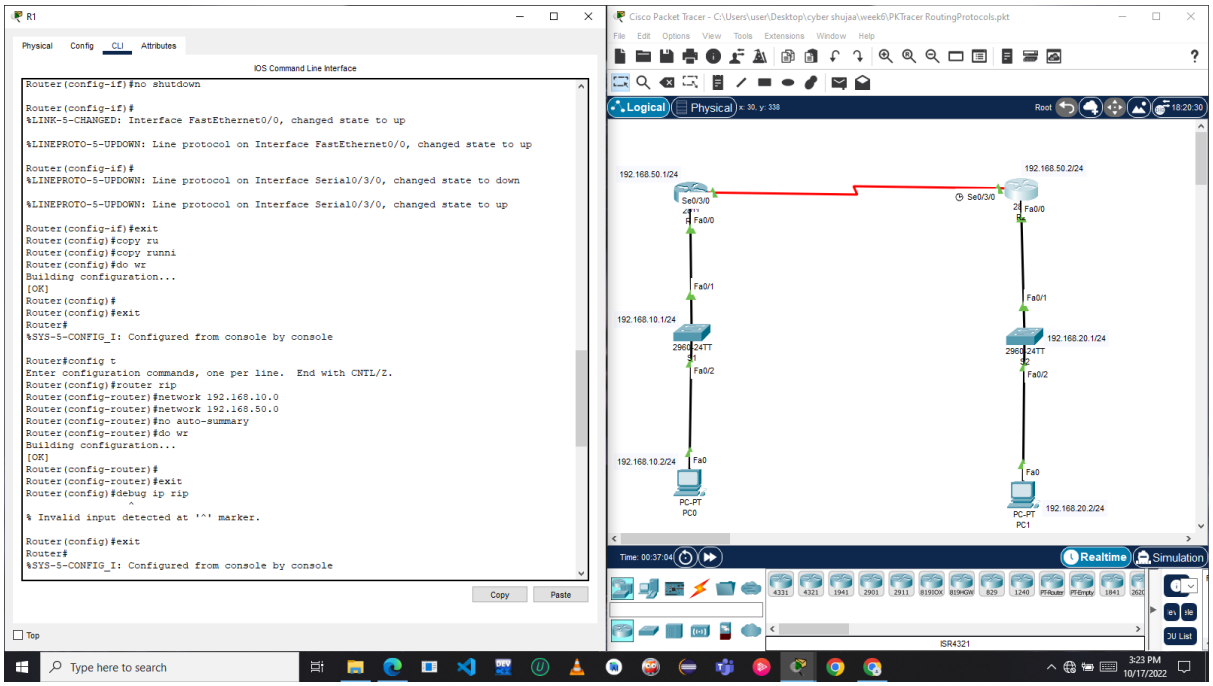
network 192.168.10.0

network 192.168.50.0

no auto-summary



Debug the routing protocol updates on R1. Observe the updates being sent and received. What kind of traffic is used (unicast, broadcast or multicast)?

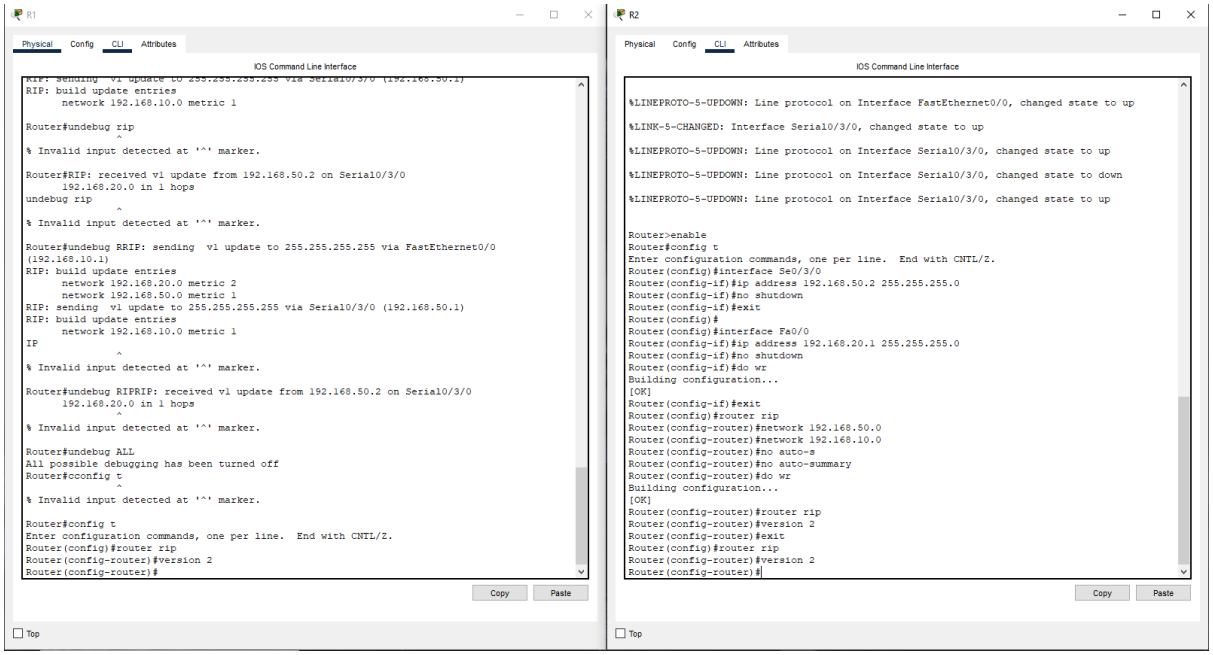


The updates are being sent on the broadcast address 255.255.255.255. All hosts on the subnet must processs the packets.

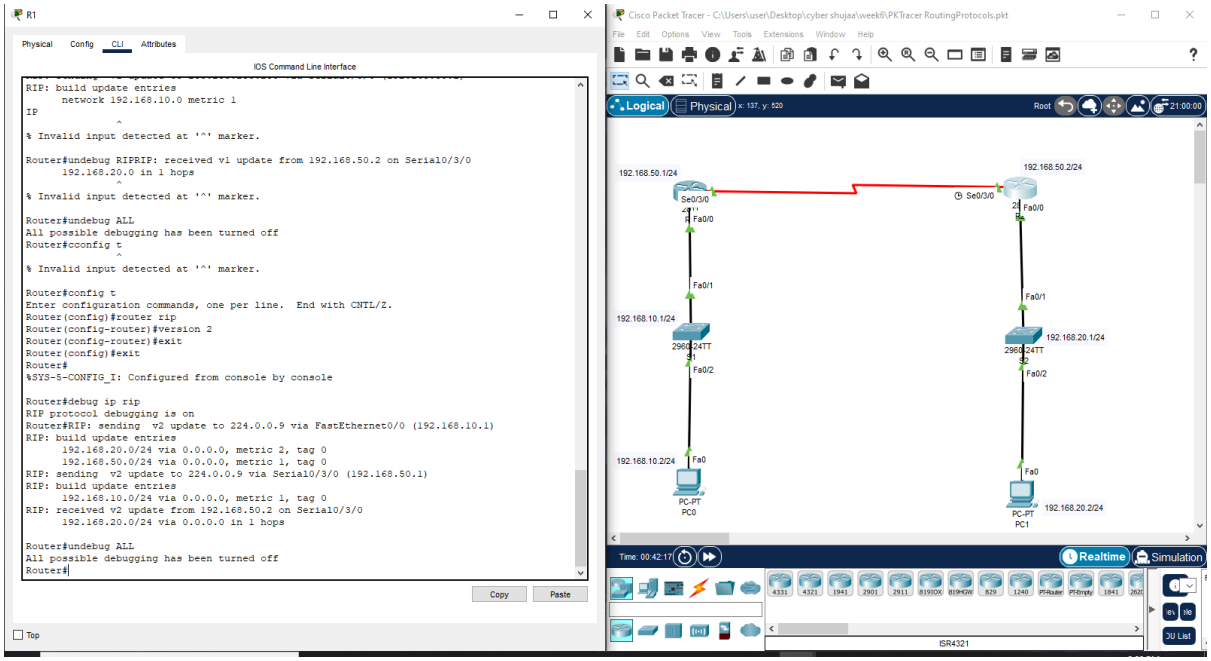
3) Enter the commands below to enable RIPv2 on every router.

router rip

version 2

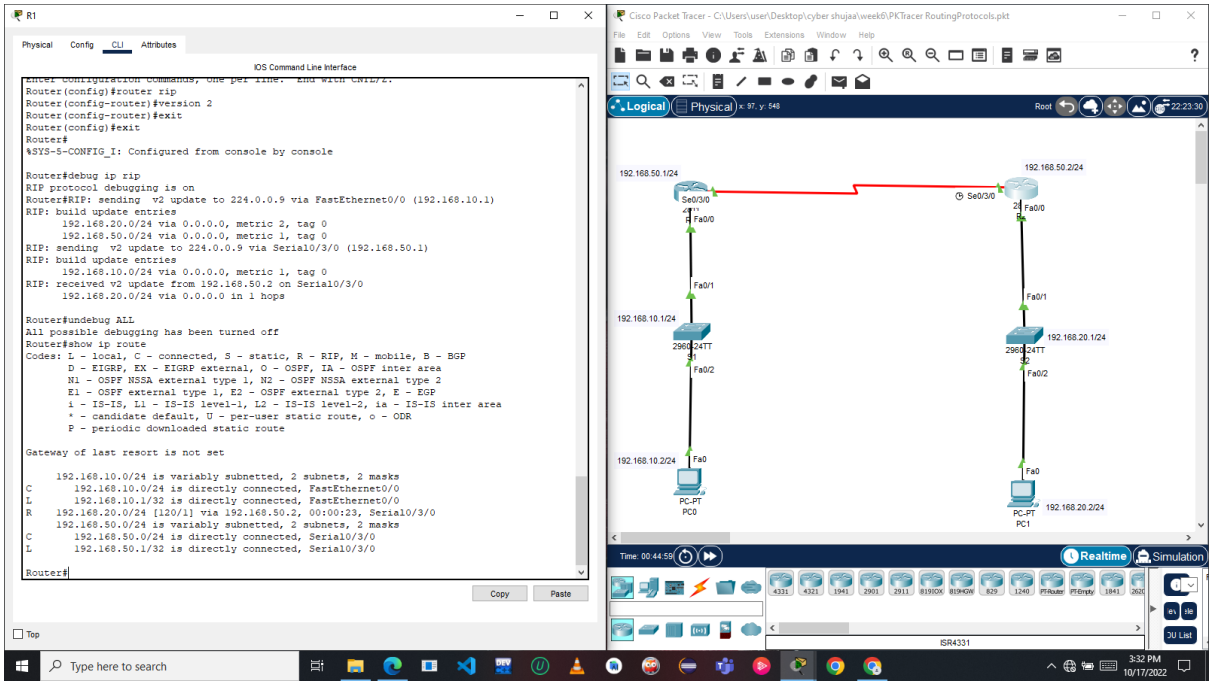


4) What kind of traffic is used for the updates now?

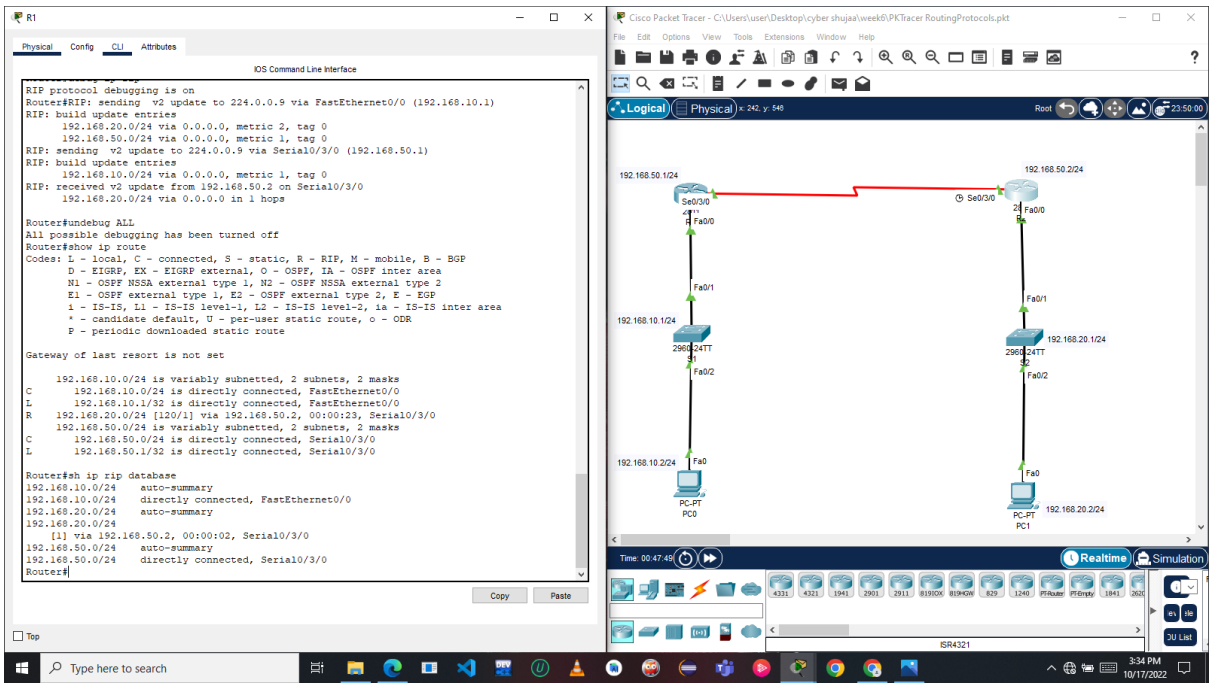


The updates are being sent on the RIPV2 multicast address 244.0.0.9. Only RIP2 routers will process the packets

6) Check that RIP routes have been added to R1 and it has a route to every subnet in the lab.

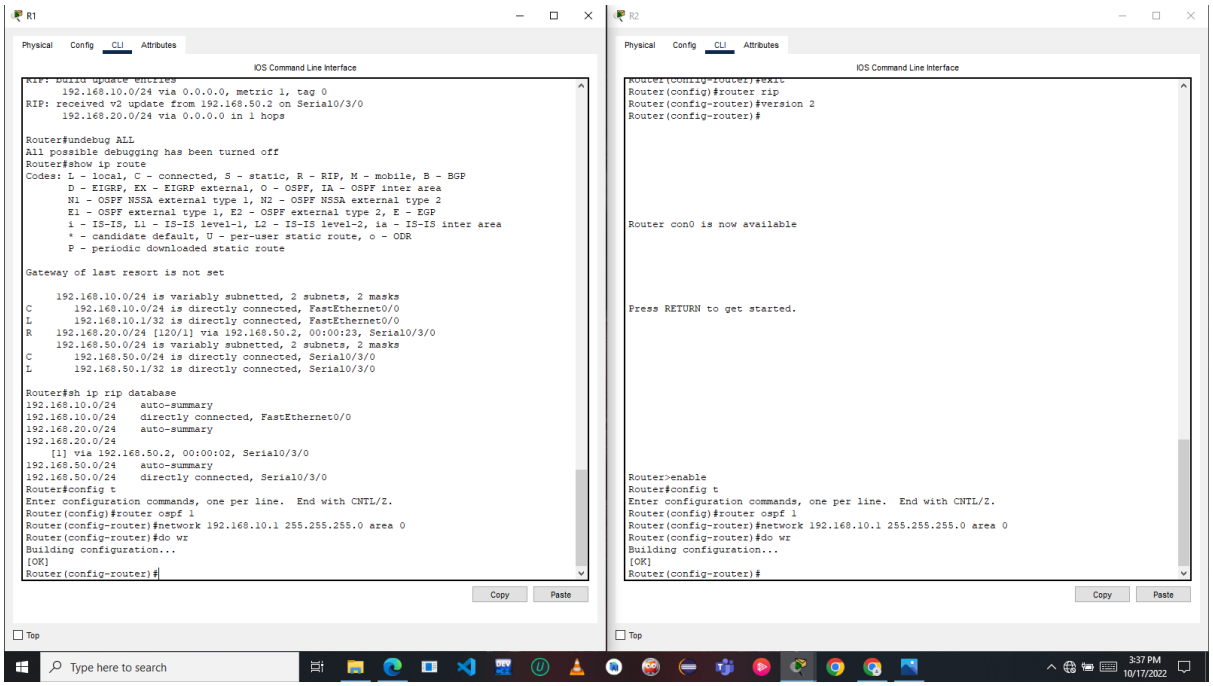


7) View the RIP database on R1.

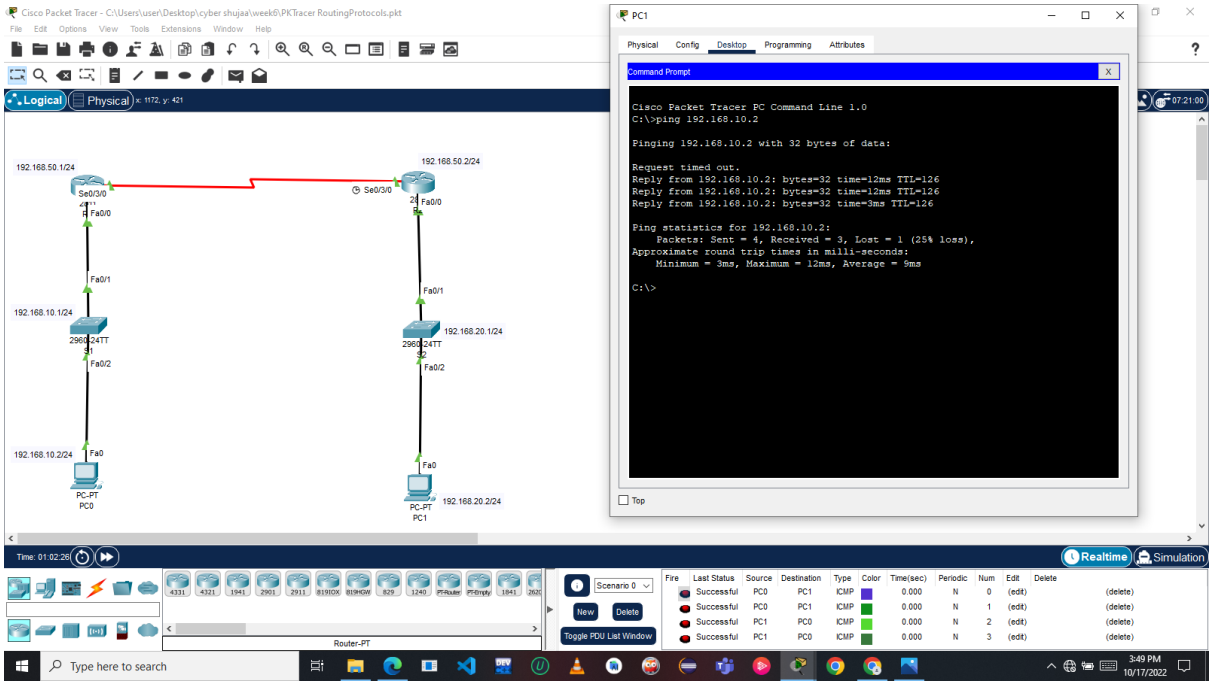


router ospf 1

network 192.168.10.1 255.255.255.0 area 0



9) Disable interface FastEthernet 0/0 on R2. What do you expect to happen to R1's routing table?



10) Verify your expected changes to R1's routing table.