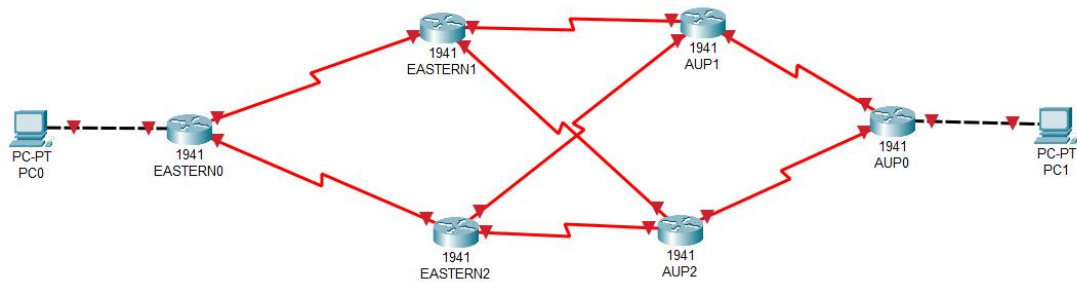**INSTRUCTION:** Separate and Save the three (3) files "EIGRP, OSPF and RIP".

Part I: Perform the following tasks and save your Packet Tracer file as "EIGRP – Your LastName, Given Name".

1. Download the attached EIGRP Packet Tracer file. But this time, you have to decide on what IP Address
and Subnet Masks should be assigned to the different ports of the router and the two PCs. The IP Address that you will assign will determine whether the task will become easy or difficult when you deploy EIGRP.
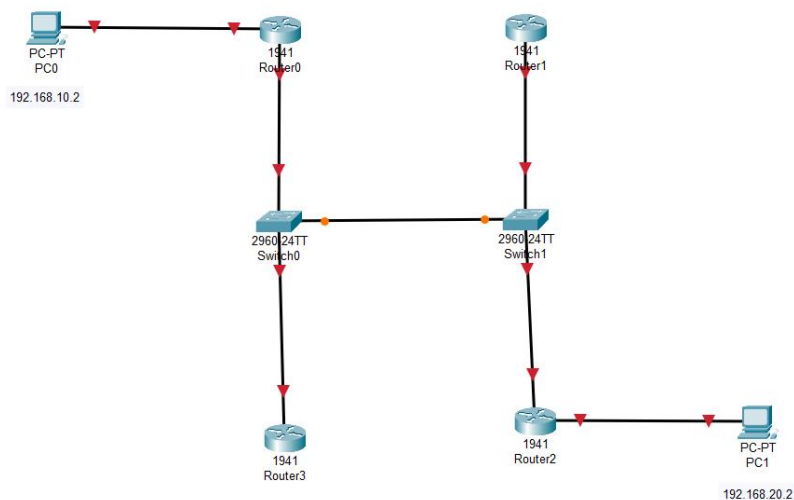

2. Assign appropriate IP Addresses and Subnet Masks to all devices, and appropriate Gateway Address to
the two PCs.
3. Put labels beside each port stating the assigned IP Address on all devices.
4. Configure all the six routers to use EIGRP. Ensure that all networks connected to each routers are advertised.
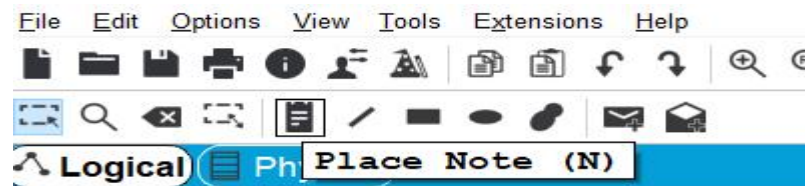
Just on EASTERN0 and AUP0 Routers only:
5. If PC0 will send packets to PC1, EASTERN0 should prefer to send the packet towards EASTERN1.

6. If PC1 will send packets to PC0, AUP0 should prefer to send the packet towards AUP2.

7. Make sure all router configurations are saved and retained after a reload.

Part II: Perform the following tasks and save your Packet Tracer file as "OSPF – Your LastName, Given Name".
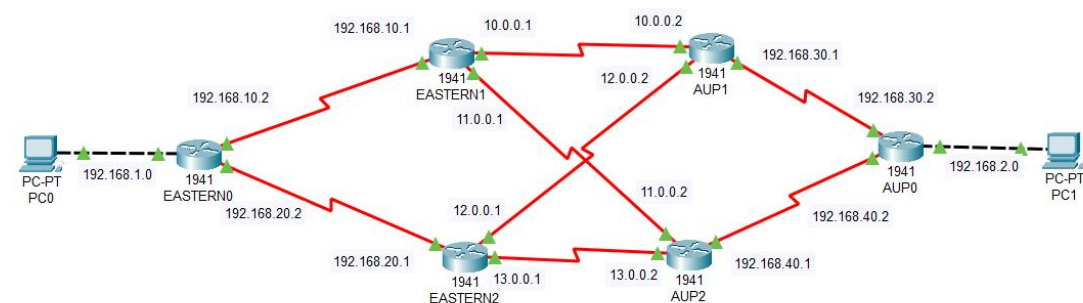
1. Draw the illustrated network below.

2. Configure the routers to interconnect using OSPF:
    a. Provide IP Addresses for all routers. Use **Class A** IP Addresses for Router to Router connections, and **Class C** IP Addresses for Router to PC connections.
    b. Assign "**Router1**" (upper right router) as the Designated Router and "**Router3**" (lower left router) as the Backup Designated Router. Ensure that they are still elected the same even after a reload.
    c. Assign the corresponding Loopback Addresses (any Class will do).
    d. Apply correct OSPF implementation.

2. Place a note beside each router to display the assigned IP and Loopback addresses using the "Place Note" icon from Packet Tracer.

3. Make sure all router configurations are saved and retained even after a reload.

4. Use "Activity 6 OSPF – Your LastName, Given Name" as the filename.

6. Submit your Packet Tracer file in iStudy

Part III: Perform the following tasks and save your Packet Tracer file as "RIP – Your LastName, Given Name".

1. Draw the illustrated network below.

2. Configure all the six routers to use version 2 of the Router Information Protocol. Ensure that all networks connected to each routers are advertised.

3. Just on the EASTERN0 and AUP0 Router:
  a. DISABLE auto-summarization.
  b. Set the port connected to the network 192.168.1.0 (for EASTERN0) and network 192.168.2.0 (for AUP0) as a PASSIVE INTERFACE.

4. Make sure all router configurations are saved and retained after a reload.