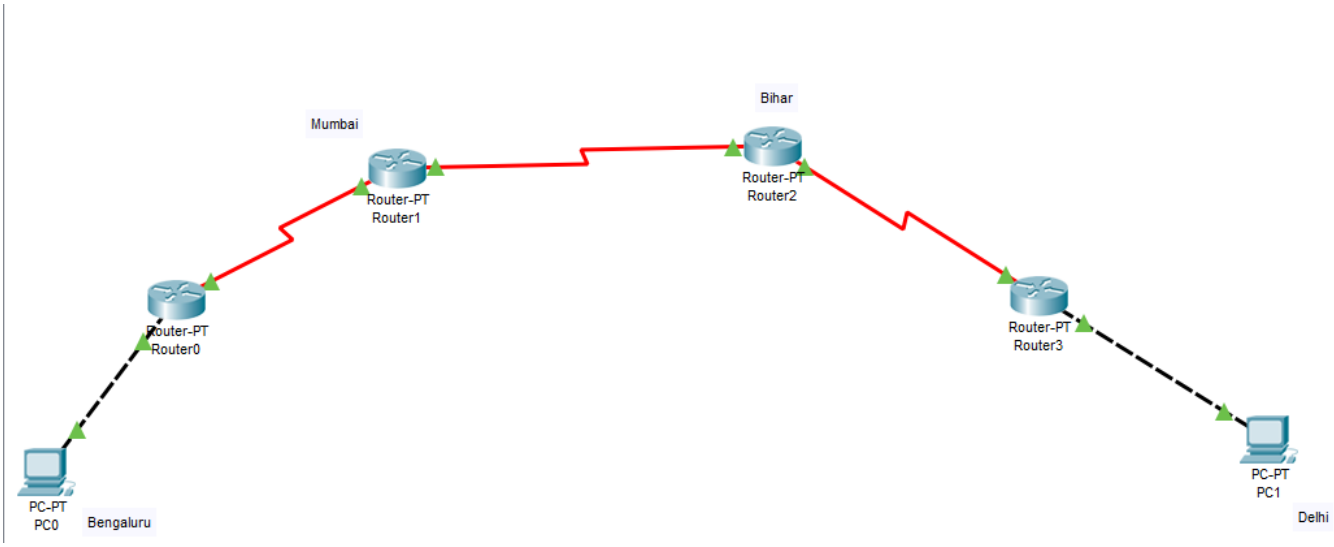
You have 4 research laboratories located at Bangalore, Mumbai, Bihar and Delhi where you want the end system at Delhi and Bangalore to communicate. Only routers exist at Mumbai and Bihar to connect Delhi and Bangalore. Create a topology for connecting these four locations by assigning Class A addresses and configure the router with default route. Also show how the End systems communicate with each other.




Step 1: Create a topology as shown above.

Step 2: Assign IP address and gateway address to PC's and IP address to routers.

Step 3: Then, the routers are configured using default routing.

In Router0:

Router(config-if)># ip route 0.0.0.0 0.0.0.0 20.0.0.2

In Router1:

Router(config-if)># ip route 0.0.0.0 0.0.0.0 20.0.0.1

Router(config-if)># ip route 0.0.0.0 0.0.0.0 30.0.0.2

In Router2:

Router(config-if)># ip route 0.0.0.0 0.0.0.0 30.0.0.1

Router(config-if)># ip route 0.0.0.0 0.0.0.0 40.0.0.2

In Router0:

Router(config-if)># ip route 0.0.0.0 0.0.0.0 40.0.0.1

Step 4: Now, ping a packet from PC0 to PC1 by executing C:> ping 50.0.0.10