Lab 4

Static Routing

Topology

Router-PT
Router2

Se3/0   30.0.0.1

20.0.01   20.0.02   Se 4/0   30.0.0.2

RouterPT   Se 2/0   Se5/0   Router PT
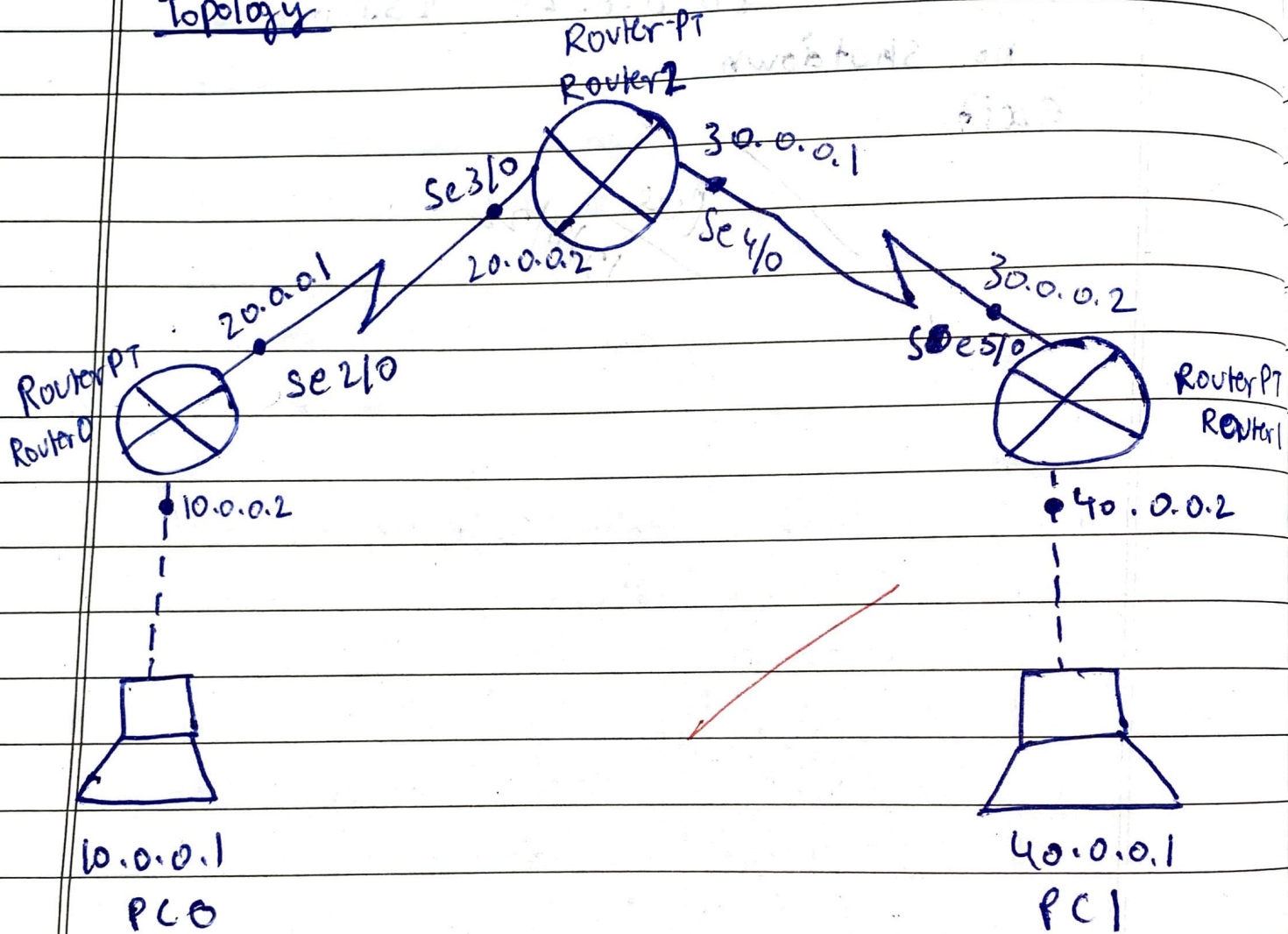Router0   Router1

10.0.0.2   40.0.0.2

10.0.0.1   40.0.0.1
PC0   PC1

Router 0 Configuration

Continue with configuration - dialog [Yes/ NO]? No

Router > enable

Router # Config terminal

Router (config) # interface fastEthernet 0/0

Router (config-if) #IP address 10.0.0.2 255.0.0.0

Router (config-if) # no shutdown

Router (config-if) # exit

    ip route 30.0.0.0 255.0.0.0 20.0.0.2
    ip route 40.0.0.0 255.0.0.0 20.0.0.2

Router-1 configuration:
Continue with configuration dialog [Yes/No]? No
Router > enable
Router # config terminal
Router (config) # interface fastEthernet 1/0
Router (config-if) # IP address 40.0.0.2 255.0.0.0
Router (config-if) # no shutdown
Router (config-if) # exit
Router (config) # interface serial 5/0
Router (config-if) # IP address 30.0.0.2 255.0.0.0
Router (config-if) # no shutdown
Router (config-if) # exit

    ip route 10.0.0.0 255.0.0.0 30.0.0.1
    ip route 20.0.0.0 255.0.0.0 30.0.0.1

Router-2 Configuration:
Continue with configuration dialog [Yes/No]? No
Router > enable
Router # config terminal
Router (config) # interface serial 3/0
Router (config-if) # IP address 20.0.0.2 255.0.0.0

Router (config-if)#no shutdown
Router (config-if)# exit
Router (config)# interface serial 4/0
Router (config-if)#IP address 30.0.0.1 255.0.0.
Router (config-if)# no shutdown
Router (config-if)# exit.

    ip route 10.0.0.0 255.0.0.0 20.0.0.1
    ip route 40.0.0.0 255.0.0.0 30.0.0.2

PC> ping 40.0.0.1
Pinging 40.0.0.1 with 32 bytes of data

Reply from 40.0.0.1 : bytes =32 time= 9ms
Reply from 40.0.0.1 : bytes=32 time =6ms
Reply from 40.0.0.1: bytes=32 time=2ms
Reply from 40.0.0.1 bytes=32 time=2ms

Ping Statistics
    packets: Sent=4, Received=4, Lost=0
Approximate round trip times in milliseconds:
    Minimum=2ms, Maximum=9ms, Avg=4ms

PDU from source end device (10.0.0.1)
   sent successfully to destination end
    device (40.0.0.1)