Configure default route, static route to the router.

- Connect devices as shown in topology
- Set IP. address to all PC's and routers.

for router,
    enable ↵
    config t ↵
    interface fastEthernet / serial 0/0 ↵
    ip address 10.0.0.1 255.0.0.0 ↵
    no shut ↵

- Default route for the router 1, router 5 and router
    router 1: enable ↵
        config t ↵
        ip route 0.0.0.0 0.0.0.0 60.0.0.3

    router 3: enable ↵
        config t ↵
        ip route 0.0.0.0 0.0.0.0 50.0.0.3

    router 5: enable ↵
        config t ↵
        ip route 0.0.0.0 0.0.0.0 100.0.0.1

- Static routing for router 0, router 6, router 4 and router 2.
→ for router 0: ip route 20.0.0.0 255.0.0.0 60.0.0.1
            ip route 30.0.0.0 255.0.0.0 70.0.0.1
            ip route 40.0.0.0 255.0.0.0 70.0.0.1
            ip route 50.0.0.0 255.0.0.0 70.0.0.1
            ip route 80.0.0.0 255.0.0.0 70.0.0.1
            ip route 100.0.0.0 255.0.0.0 70.0.0.1
            ip route 110.0.0.0 255.0.0.0 70.0.0.1

similarly for router 6, router 4 and router 2.

Output:

ping 20.0.0.1

pinging 20.0.0.1 with 32 bytes of data

Request timed out

reply from 20.0.0.1 : bytes=32 time=7ms TTL=126
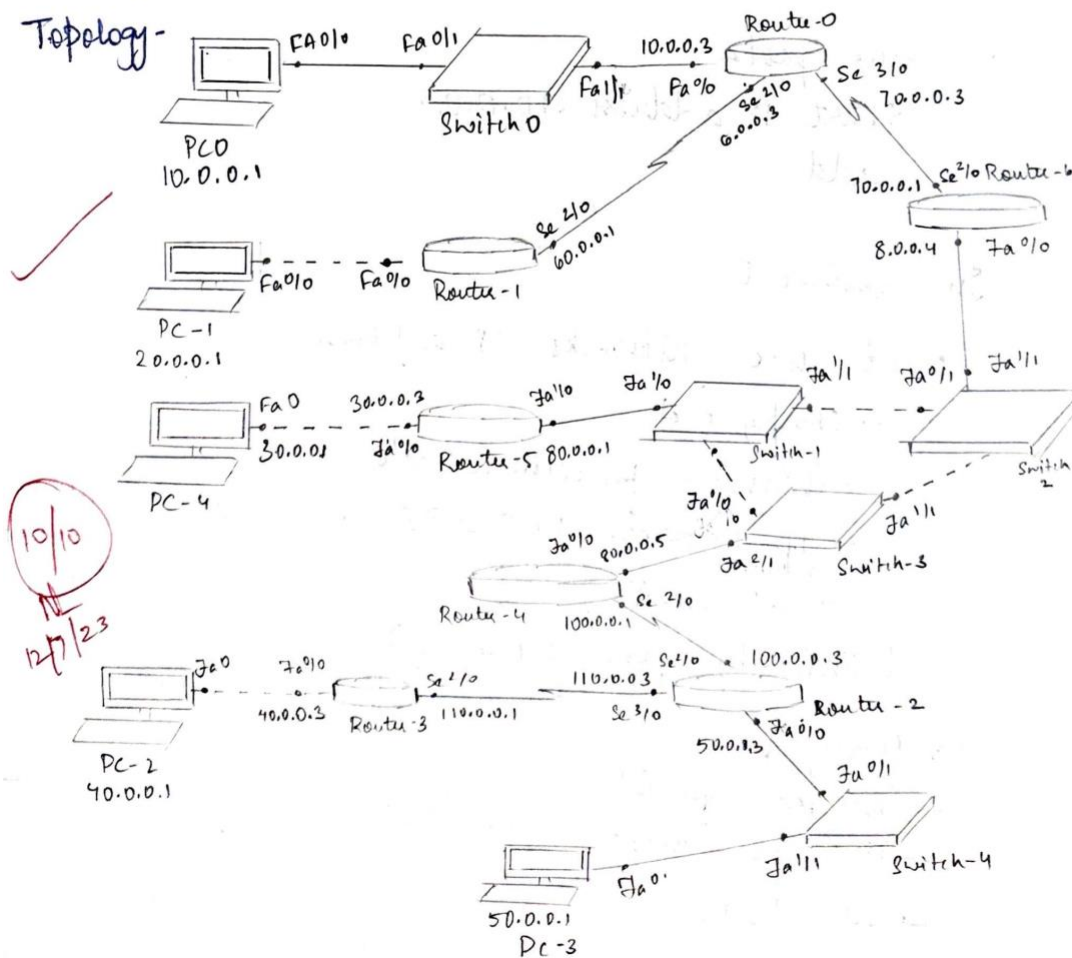
reply from 20.0.0.1 : bytes=32 time=7ms TTL=126

reply from 20.0.0.1 : bytes=32 time=7ms TTL=126

ping statistics for 20.0.0.1:

packets : sent = 4 , recieved = 3 , host = 1 (25% loss)

Approximate round trip times in milliseconds

minimum = 6ms, Maximum = 7ms, Average = 6ms.

Topology-

Topology and Output: