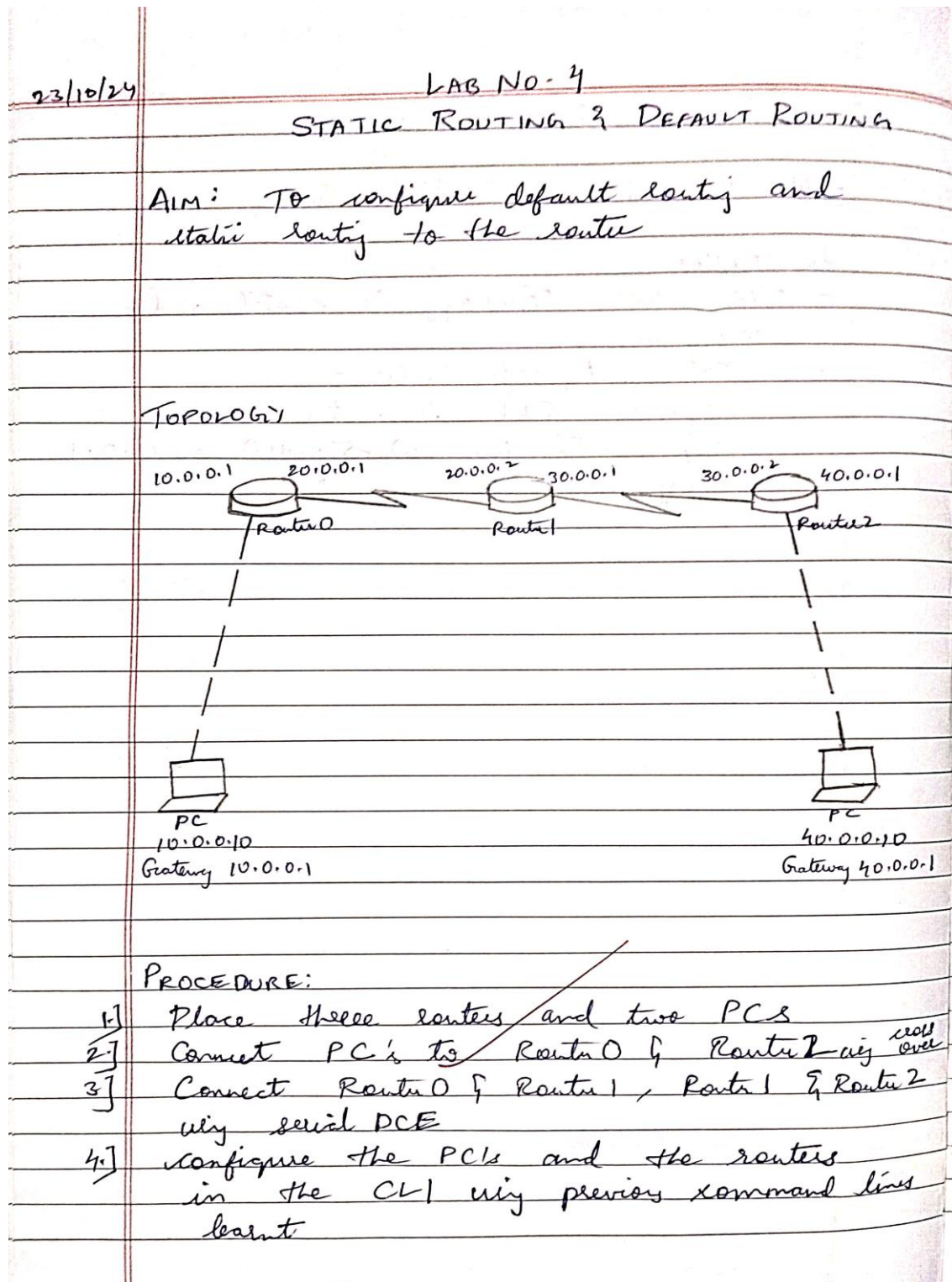


Computer Networks: Lab Record

Week 4

Experiment 4: Static Routing and Default Routing

Configure default route, static route to the Router



5.1 Static Routing:

To configure ip routes manually rather than dynamic routing

- Router 1 must know about the 10.0.0.0 network and also the 40.0.0.0 network
- To achieve this:

Open CLI in Router 1 :

`Routa(config)# ip route` 10.0.0.0 255.0.0.0 20.0.0.1

left network hop address

```
Router(config)# ip route 40.0.0.0 255.0.0.0 30.0.0.2
```

6.3 Default Routing:

The route that takes effect when no other route is available for an IP destination address

Go to Router 0:

```
(config)# ip route 0.0.0.0 0.0.0.0 20.0.0.2
```

In Route:

```
(config)# ip route 0.0.0.0 0.0.0.0 30.0.0.1
```

7.] ~~ping~~ 40.0.0.10 from 10.0.0.10

OBSERVATIONS:

1.] IP route for Route 1 :

S 10.0.0.0/8 [1/0] via 20.0.0.1

C 20.0.0.0/8 is directly connected, Serial 2/0

C 30.0.0.0/8 is directly connected, Serial3/0

S 40.0.0.0/8 [1/0] via 50.0.0.2

$C \rightarrow$ connected $S \rightarrow$ Station

the two networks are connecting via static routing

In Router 0:

C 10.0.0.0/8 is directly connected, FastEthernet0/0

C 20.0.0.0/8 is directly connected, Serial2/0

S* 0.0.0.0/0 [1/0] via 20.0.0.2

S*: static default routing

ping was successful:

Sent = 4, Received = 4, Lost = 0

Min = 8 ms Max = 8 ms, Avg = 8 ms

2/3/10

Screenshots:

