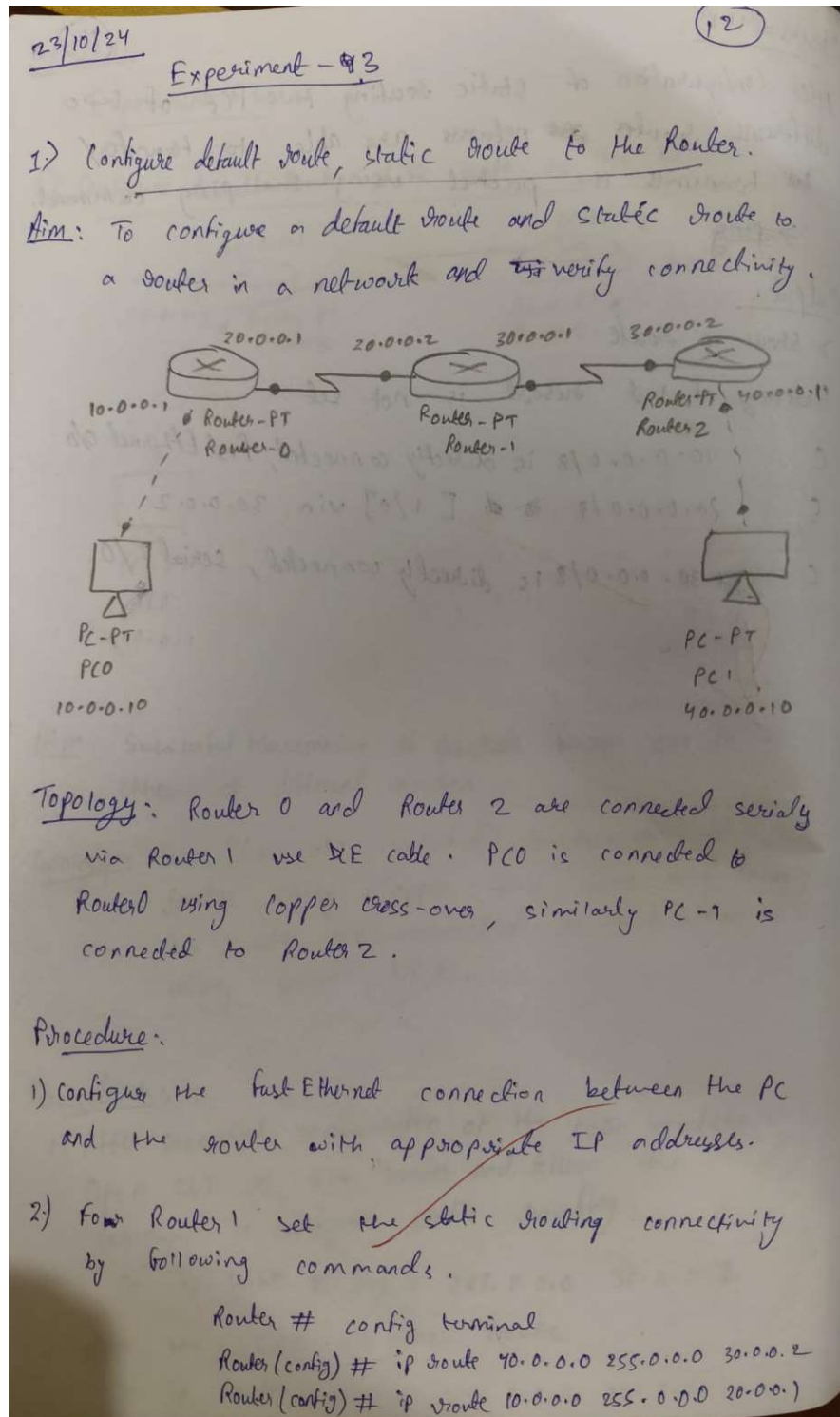


Program 4

Aim: Configure default route, static route to the Router (Part 2).

Topology , Procedure and Observation:



These commands will set the static Routing of the Router 1.

3) set the default Routing if Router 0 and Router 2.

- Open CLI on Router 0.

Router # config terminal.

Router(config) # ip route 0.0.0.0 0.0.0.0 20.0.0.2

- Open CLI on Router 2

Router # config terminal.

Router(config) # ip route 0.0.0.0 0.0.0.0 30.0.0.1

When the network and the subnet mask are set as 0.0.0.0, Any unknown network will be transferred to the next hop address mentioned.

Observation: After configuring the default route, PC0 could communicate with external networks, including PC1. The static route ensured that packets are followed the specified path as given in the static routing.

Output:

Router 1: # show ip route

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, serial 3/0

S 40.0.0.0/8 [1/0] via 30.0.0.2

(14)

Router 0: # show ip route

C 10.0.0.0/8 is directly connected, FastEthernet 0/0
C 20.0.0.0/8 is directly connected serial 2/0
S* 0.0.0.0/0 [1/0] via 20.0.0.2

Router 2: # show ip route

C 40.0.0.0/8 is directly connected, FastEthernet 0/0
C 30.0.0.0/8 is directly connected, serial 3/0
~~S* 0.0.0.0/0 [1/0] via 30.0.0.1~~



Screen Shots:

