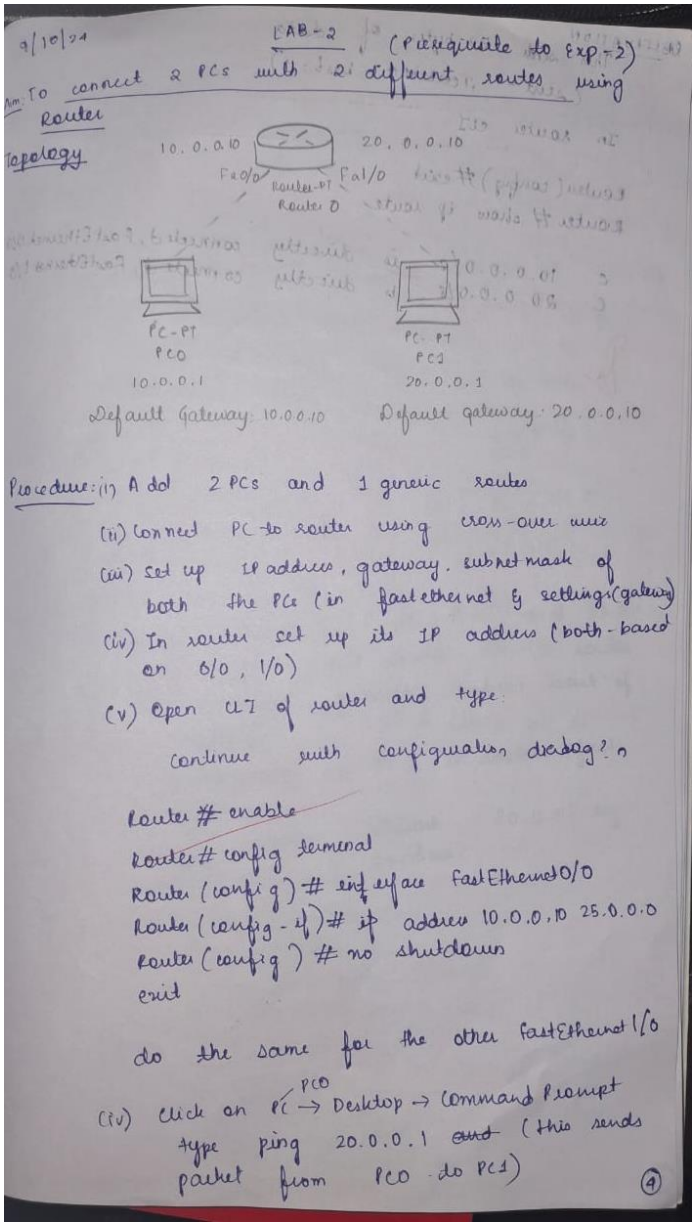
9|10|2024 Week-2(Experiment 2a)

Observation Book:



9/10/24 LAB-2 (Prerequisite to Exp-2)

Aim: To connect 2 PCs with 2 different routers using Router

Topology

Procedure: (i) Add 2 PCs and 1 generic router

(ii) Connect PC to router using cross-over wire

(iii) Set up IP address, gateway, subnet mask of both the PCs (in fastethernet & setting>(gateway)

(iv) In router set up its IP address (both - based on 0/0, 1/0)

(v) Open CLI of router and type:

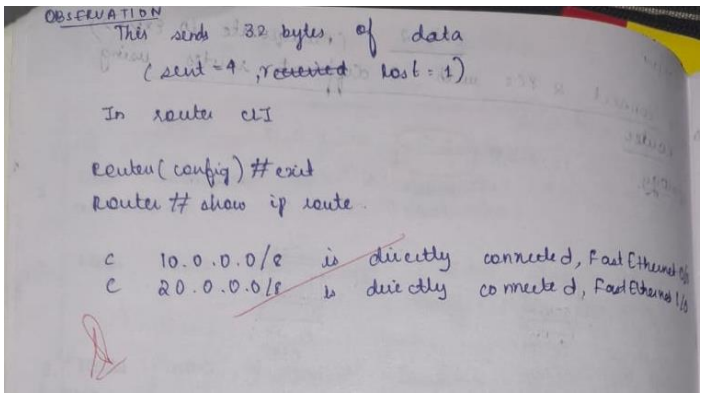
Continue with configuration dialog? n

Router # enable
Router # config terminal
Router (config) # interface FastEthernet 0/0
Router (config-if) # ip address 10.0.0.10 25.0.0.0
Router (config) # no shutdown
exit

do the same for the other FastEthernet 1/0

(iv) Click on PC0 → Desktop → Command Prompt
type ping 20.0.0.1 (this sends packet from PC0 to PC1)

④



OBSERVATION

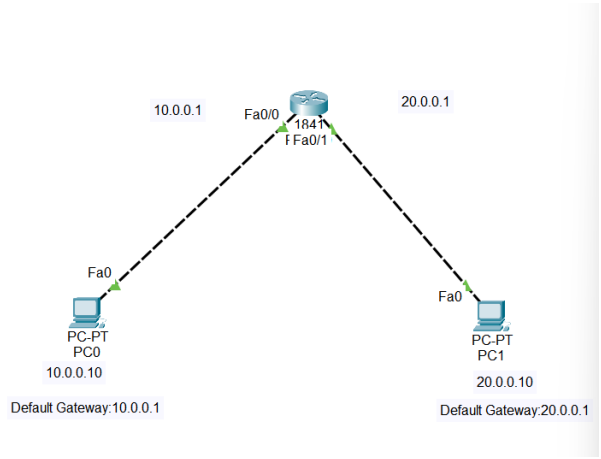
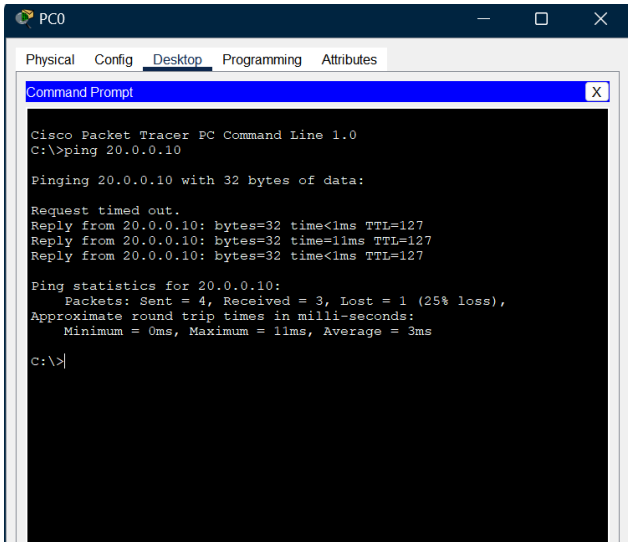
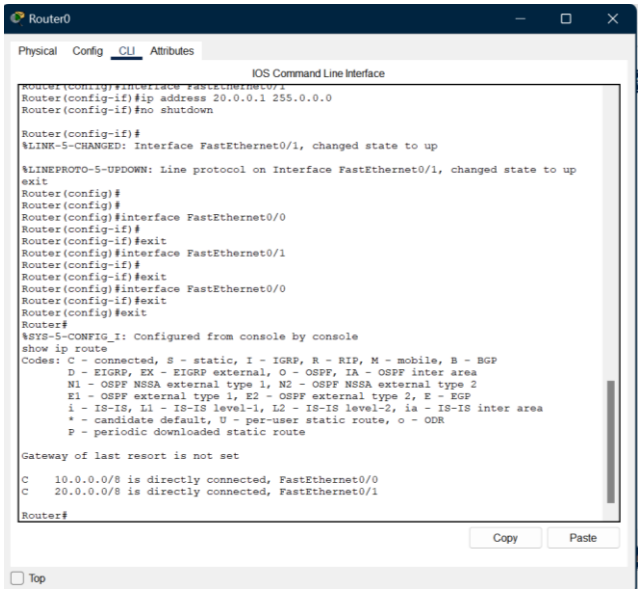
This sends 32 bytes of data
(sent = 4, received = 4, lost = 1)

In router CLI

Router (config) # exit
Router # show ip route

C 10.0.0.0/8 is directly connected, FastEthernet 0/0
C 20.0.0.0/8 is directly connected, FastEthernet 1/0

Topology:



Output: