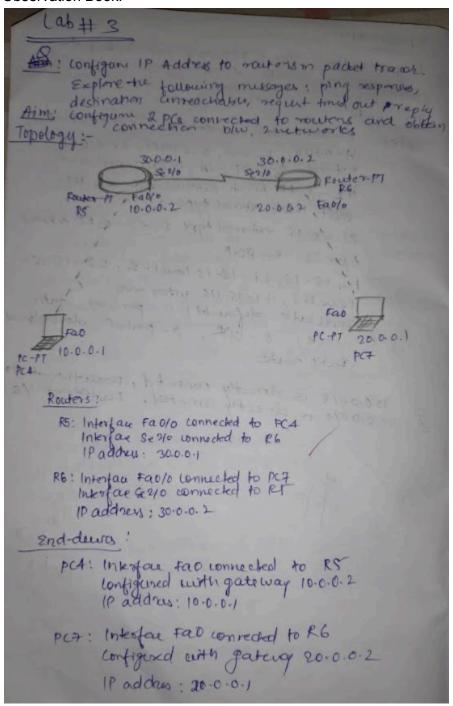
Observation Book:



Procedure ! -

1. Place & Routers and & PCs. connect the Decuth Routes using choss-oner connecting with fast othermet and connect the nousers to each one using serial connection

&. Configure PCs with respective 1P address and

3. Ensure connection between souters and PG using the CII of routes.

- A- Ensure connection between routes by using cli once more Now upon checking tonfiguration you'll be able to see the changes.
- 5. Try to ping one PC to another, but you get a message saying host unreachable requisitimed out (desped out put)
- 6. Create 1p route between the 2 networks

Observation:

- . There are 2 routers which are configured and correctly connected to me nodes. However the nodes aren't alou to communicate with each other.
- pring between the 2 pcs is working.

command Prompt: PC4

Before establishing iprocete:

pinging 20.0.01 with 32 bytoof data:

Reply from 10.0.0.2: sestination host anneachable

After establishing ip noute.

20.0.0-1 with 32 bytes of das:

Reply ton 20.001: bytes = 32 time = 5 ms 771=128

Command Prompt: PC7

=> Betare establishing ip route:

pinging 10.0.0.1 with 32 bytes of data:

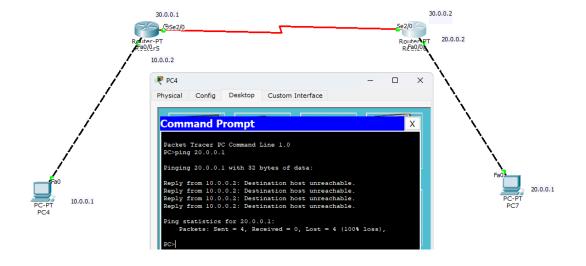
Reply from 20.0.0.2: pestination host unreachable

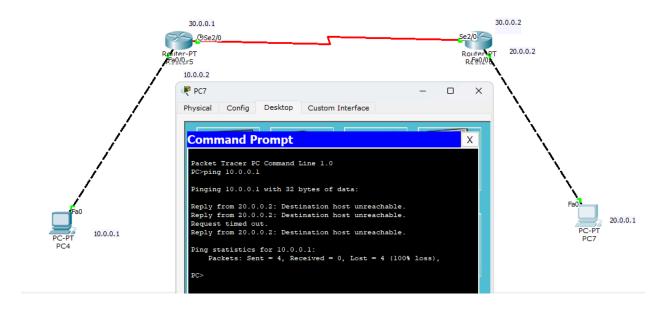
=> After establishing ip route:

programy 10.0.0.1 with 32 bytes of data:

Reply from 90.0.0.1: byte=32 tre=3m T71=12e

Screenshots:





```
Router(config) #ip route 20.0.0.0 255.0.0.0 30.0.0.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 is directly connected, FastEthernet0/0
     20.0.0.0/8 [1/0] via 30.0.0.2
    30.0.0.0/8 is directly connected, Serial2/0
Router#
Router(config) #ip route 10.0.0.0 255.0.0.0 30.0.0.1
Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
    10.0.0.0/8 [1/0] via 30.0.0.1
    20.0.0.0/8 is directly connected, FastEthernet0/0
    30.0.0.0/8 is directly connected, Serial2/0
Router#
```

