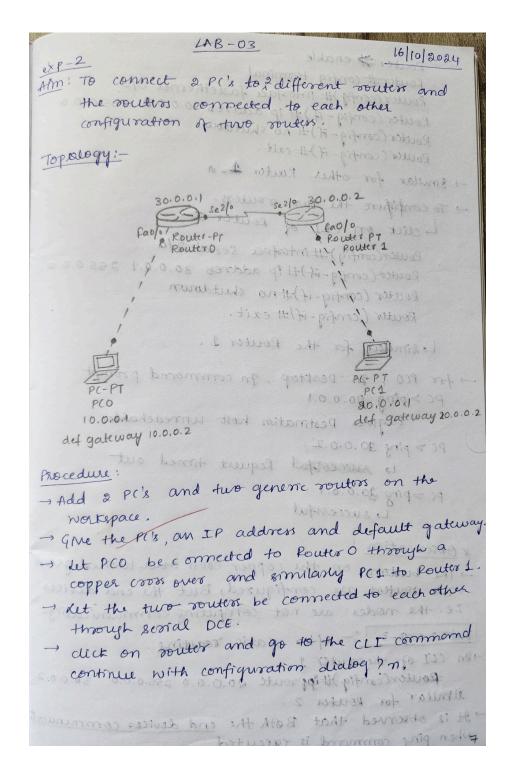
## **Observation Book:**



Router # enable Router # config terminal Router (config)# mtorface fastethemet o/o Router (config-if) # ip address 10.0.0. 2 255:010.0 Router (config- if) # no shuldown Router (config-if)# exit.

- -> Smular for other Router D. a
- -> To configure the two routers. Lick on CLI of Router of.

Router(config) # mtorface Sevial 2/0 Router (config-if) # 1p address 30.0.0.1 255.0.0.0 Router (config-if) # no shutdown Router (config-if)# exit.

La similar for the Router I.

- for PCO, In Desktop, In command prompt PC > ping 20.0.0.1

la gives Destruction host unreachable

PC > ping 30.0.0.27

is seemed Request timed out

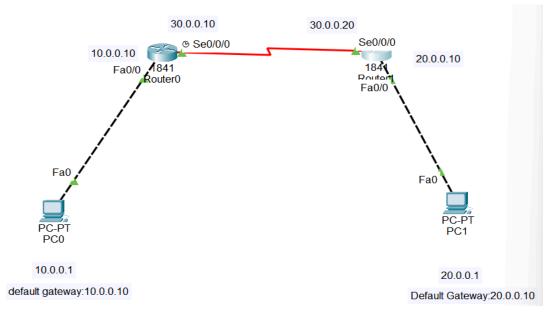
and two generic 1.0.0.08 grid = 29 L, successful

Pls on IP address and default gater

\* Observation on the copper cross over turned green - The souters are configured, But the end devices i.e. the nodes are not computing communicating

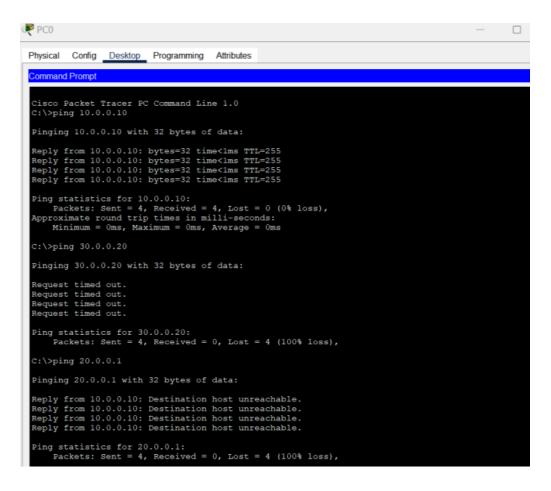
```
16/10/2024
Asm! Configure default maute, static route to
        souter configure static connection to route.
 Topology: same as experiment -02
 Proceduce: * go to CII of routerO and m CII
              enter
               Routeottenable
               Routes# config terminal
               Router (config) # ip route 20.0.0.0
                              255.0.0.0 30.0.0.2
               Router (config) #exit.
            * Repeat the same for cauter 0 by
                 charging 20 to 10 and 30.0.0.2 to
                  30.0.0.1.
   Observation: - gn CLI
                # show ip route
                  (for souter 2)
                  S 10.0.0.0/8[1/0] Via 30.0.0.1
                  c 20.0.0.0/8 is directly connected,
                                      Fast Ethernet 0/0
                  c 30.0.0.0/8 18 directly connected,
                                    serial o/o/o
               on pringing end devices, the message
    OUTPUT!
                 sent is sent.
                  also souter are as well.
```

## Topology:



## Output:(Before Static Routing):





## (After Static Routing):

```
Router0
  Physical Config CLI Attributes
                                                                                 IOS Command Line Interface
                 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 30.0.0.0/8 is directly connected, Serial0/0/0
   Router#config terminal
  Enter configuration commands, one per line. End with CNTL/Z. Router(config) #ip route 20.0.0.0 255.0.0.0 30.0.0.20
   Router (config) #exit
    Router#
    %SYS-5-CONFIG_I: Configured from console by console
   enable
    Router#show ip route
   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 - OSFF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSFF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, Il - 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 30.0.0.20 30.0.0.0/8 is directly connected, Serial0/0/0
                                                                                                                                                                     Copy
                                                                                                                                                                                              Paste
```

