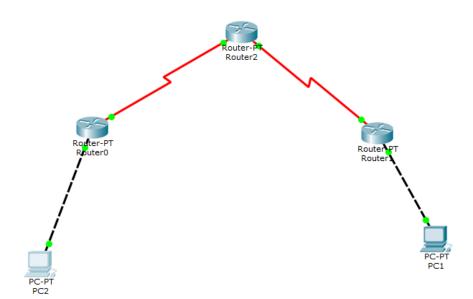
## Experiment - 3

Aim: To demonstrate the configuration of static routes to the router

Topology:



## Output:

```
PC2
                                                                            Config
                  Desktop
Physical
                            Custom Interface
 Command Prompt
   PC>ping 40.0.0.2
   Pinging 40.0.0.2 with 32 bytes of data:
   Request timed out.
   Reply from 40.0.0.2: bytes=32 time=7ms TTL=125
   Reply from 40.0.0.2: bytes=32 time=9ms TTL=125
   Reply from 40.0.0.2: bytes=32 time=7ms TTL=125
   Ping statistics for 40.0.0.2:
     Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
   Approximate round trip times in milli-seconds:
      Minimum = 7ms, Maximum = 9ms, Average = 7ms
   PC>ping 40.0.0.2
   Pinging 40.0.0.2 with 32 bytes of data:
   Reply from 40.0.0.2: bytes=32 time=7ms TTL=125
   Reply from 40.0.0.2: bytes=32 time=9ms TTL=125
   Reply from 40.0.0.2: bytes=32 time=9ms TTL=125
   Reply from 40.0.0.2: bytes=32 time=5ms TTL=125
   Ping statistics for 40.0.0.2:
       Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
   Approximate round trip times in milli-seconds:
       Minimum = 5ms, Maximum = 9ms, Average = 7ms
   PC>
```

Observation:

classmate Date 8/10/24 Experiment-3 To demonst rate the configuration of default routes to the router of species out est ould noite unas a starn (ii) Topology: west estants on one ryword convert the troo. Claires Poutry-pr praise 10/ sex19 ( 11) 20 des10,2 \$0.0.00 30-0-0-7 big 902/00/00/01/01/01/01 ) pout 1 - PT Fa010 0 01000 0 2 01 (day +xxx) 6-220 0.0-0-0A Tuer 1 Fac 0 218 0.0 0.00 store ditt Fa0 40.0.0.2 check out the copono.010 orVivo PC - PT PLO PCTRT tuo the distribution 2P a and promines reper solutions of single To setup routing configuration: dollars # ip route dubnation network it dustination mask next hop des hincher mark 3220 noute 20.0.0.0 255.0.0.0 20.0.0.2 Show it route - shows the connected networks up 10 est police of date Sub = suid Un. c. o. 2 : bylus = 82 Reply

Classmate Date Page

Lonfiguration: (i) select two generic Pc and 3 generic routex and config the 2p address for the (ii) make a connection blue the Pland mouter using the CLI (fast ethernet 010) config them using (II ( serial)

(iv) set gateway for both the end Pcs (u) Then get up the routing configuration by carrying out the following command.

# ip route (dushination network) (dushination sub--retwork) (next nop) in (config) for example for nouter 2 the command will be: # ip rout 40.0.0.0 255.0.0.0.30.0.02 # ip route 40.0.0.0 255.0.0.0 .20.0.0.1 (vi) to check out the connection comy out show ip noute (Vi) Then Ping the distination 2P address from the source PC under command prompt in dukhop. nednrupinos situar du 188 (Viii) carry out sing command of # ip route dupparba OBSER VATION: PC7 bing 20.0.0.2

(vooted testimon at sounds to source of cooks Pinging 40.0.0.2 with 32 bytes of data Peply from 40.0.0.2: bytes=32 home=7ms TTL=125 Reply from 40.0.0.2: bytes: 32 kme = 7 ms 7TL=125 Pelply from 40.0.0.2: bytes = 32 home = 7 ms TTL= 125

classmate Date\_\_\_\_ Reply from 40.0.0.2 : bytes =32 kme=9ms +71=125 Ping Statistics for 40.0.0.2 Parkets: sent = 4, Priciosed = 4 lost = 0 (01-loss) Approximate yound hip homes in milli-seconds: minimum = 5 ms Maximum came, Average = 7 ms. For routes 2 louter > show ip route 10.0.0.0 l8 [310] via 20.0.0.1 20.0.0.018 is directly connected, serial 210 c 30.0.0.018 is diretty connected, serial 310 S 40.0.0.0 [2 [0] via 30.0.0.2 For Louter o 10.0.0.018 is directly connected, Fastethornet of 20.0.0.018 is directly connected, serial 2/0 30.0.0.018 [1/0] via 20.0.0.2 40.0.0.018 [110] via 200.0.2 For router 1 10.0.8.018 [110] via 30.0.0.1 20.0.0.018 [110] via 30.0.0.1 30-0.0.0 8 is directly connected, script 210 40-0-0-018 is directly connected, Fast etherneto/0

So.