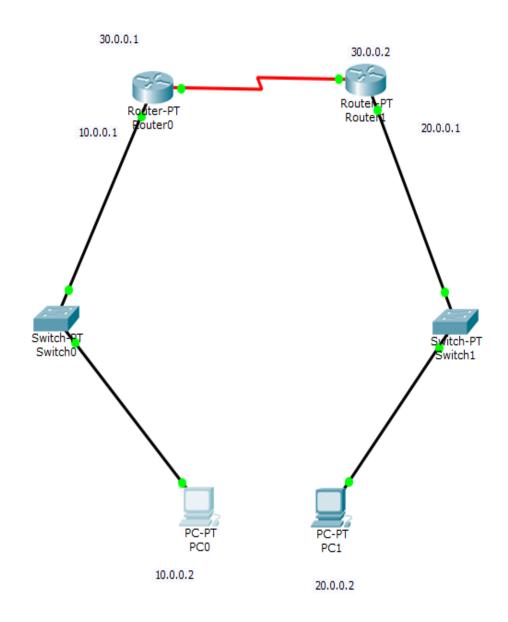
LAB-6

6.1:=Config RIP routing protocal in Routers Daigram:=using switch



Output :=

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 0ms, Average = 0ms
PC>ping 310.0.0.1
Ping request could not find host 310.0.0.1. Please check the name and try agai
PC>ping 30.0.0.1
Pinging 30.0.0.1 with 32 bytes of data:
Reply from 30.0.0.1: bytes=32 time=0ms TTL=255
Ping statistics for 30.0.0.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 0ms, Average = 0ms
PC>ping 30.0.0.2
Pinging 30.0.0.2 with 32 bytes of data:
Reply from 30.0.0.2: bytes=32 time=4ms TTL=254
Reply from 30.0.0.2: bytes=32 time=1ms TTL=254
Reply from 30.0.0.2: bytes=32 time=2ms TTL=254
Reply from 30.0.0.2: bytes=32 time=4ms TTL=254
Ping statistics for 30.0.0.2:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 1ms, Maximum = 4ms, Average = 2ms
PC>ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 20.0.0.1: bytes=32 time=1ms TTL=254
Reply from 20.0.0.1: bytes=32 time=3ms TTL=254
Reply from 20.0.0.1: bytes=32 time=3ms TTL=254
Reply from 20.0.0.1: bytes=32 time=3ms TTL=254
Ping statistics for 20.0.0.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 1ms, Maximum = 3ms, Average = 2ms
```

```
PC>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

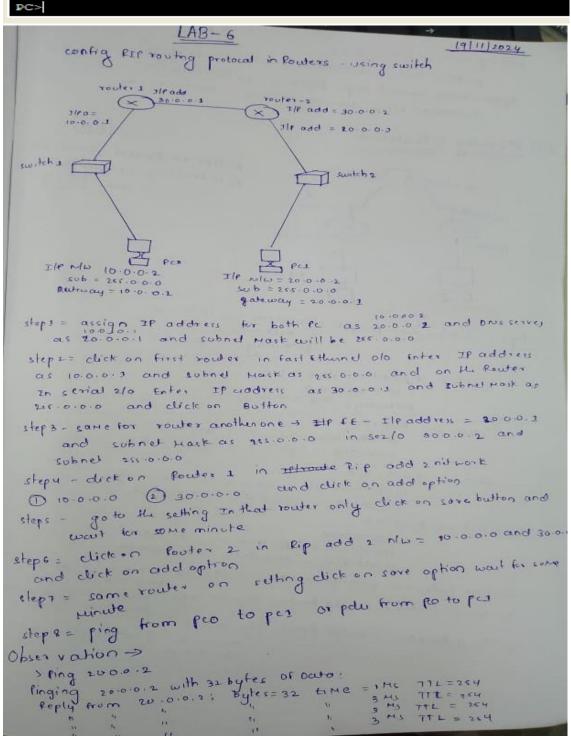
Reply from 20.0.0.2: bytes=32 time=3ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126
Reply from 20.0.0.2: bytes=32 time=2ms TTL=126
Reply from 20.0.0.2: bytes=32 time=3ms TTL=126

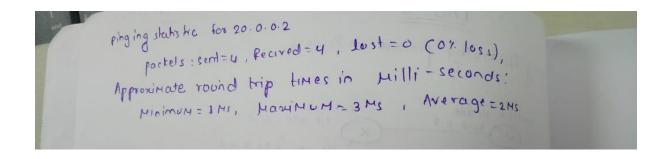
Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

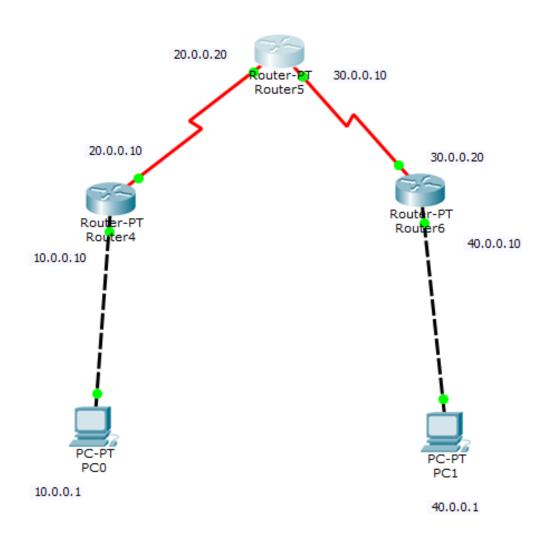
Minimum = 1ms, Maximum = 3ms, Average = 2ms

PC>
```





Lab 6.2) 6.1:=Config RIP routing protocal in Routers
Daigram:=using Router



Output:=

```
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 [120/1] via 20.0.0.10, 00:00:10, Serial2/0
    20.0.0.0/8 is directly connected, Serial2/0
    30.0.0.0/8 is directly connected, Serial3/0
    40.0.0.0/8 [120/1] via 30.0.0.20, 00:00:10, Serial3/0
Router#show ip protocal
% Invalid input detected at '^' marker.
Router#show ip protocols
Routing Protocol is "rip"
Sending updates every 30 seconds, next due in 16 seconds
Invalid after 180 seconds, hold down 180, flushed after 240
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Redistributing: rip
Default version control: send version 1, receive any version
                      Send Recv Triggered RIP Key-chain
 Interface
 Serial3/0
                       1
                            2 1
                      1
                            2 1
 Serial2/0
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
           20.0.0.0
           30.0.0.0
Passive Interface(s):
Routing Information Sources:
                      Distance
                                      Last Update
           Gateway
                          120
                                      00:00:14
           20.0.0.10
                              120
           30 0 0 20
                                       00:00:16
Distance: (default is 120)
Router#
```

```
PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1: bytes=32 time=4ms TTL=125
Reply from 40.0.0.1: bytes=32 time=6ms TTL=125
Reply from 40.0.0.1: bytes=32 time=6ms TTL=125
Reply from 40.0.0.1: bytes=32 time=7ms TTL=125

Ping statistics for 40.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 4ms, Maximum = 7ms, Average = 5ms
```

Observation:=

```
RIP using 3 Rowlers >
                                                         NO
                                        fower to Routed - serrar bee
                      30.0.0.10
         20.0.0.20 (×
                                        pc to lower = cropper trog
    20.0.0.10
                           30.0.0.20
    10.0.0.10
                               40.001
     10-0-0-1
step1 = click on first peopot Ilpaddress = 10.0.0.2
                             sub nel Monks = 225.0.0.0
                                        = 10.0.0.10
                              gate way
             Ilpaddress wo.0.0.1
       PCI =
                1.H = 255.0.0.0
               galeways = 40.0.0.10
     dick on fowler 0 =
                  fast Ethen 010 = 10.0.0.10 155.0.0.0
                  serial 910 = 20.0.0.10 285.0.0.0
     clickon Router 2 =
                fastflheined 010 = 40.0.0.10 255.0.0.0
                 serial 210 = 30.0.0.20 215-0.00
    clict on fouter 1 =
                  serial 210 = 90.0.0.20 265.0.0.0
                 senal 310 = 30.0.0.10 255.0.0.0
  In first focter 0 = add forder No in FTP > 100.00 & setting corp
  In second factor 1 = add forter NIU in FIF = 20.0.0.0 getting seve
In Thred Routers add Poute No in RIP=
                                     40.0.0.0 & cetting cove opten
```

```
fower # show ip rowe
    cody = c = connected s - state I - IMP P-PIP
  Enaleway of Last rosor is no Isen
        10.0.0018 A2011 Tria 20.0.010 00:00:10 serial 210
   c 20.0.0.018 is directly connected senculars
c 30.0.0.018 is directly connected senculars
R 40.0.0.018 pro 117 via 30.0.0.20 00:00:10, senculars
powter # show ip protocols ->
sending updates every so seconds, next due in 16 seconds
 Invalid after 180 seconds, hold down 180, flushed after to
 outgoing update filer dist for all interface is noted
  Incoloring opdate filter lid for all III is not sent
  Redes Howing : Rip
 Defall version controls send version I , reive any version
            send fer maggired for key chain
    Sericu 310
     sencuazio
  Automatic als surmanzation is in effect
    Max path: 4
    Powling For NIU
             20.0.0.0
             30.0.0.0
   Passive Ilf
                                         Last update 00:00.14
   PIS =
          ev. 0. 0.10
                            pistance
                            120
                                           00:00:16
           30.0.0.20
    Distance Default is no
Pco > fing 40.0.0.1
 Ping 40.0.0.1 with 32 bytes of para:
  Reply from 40.0.0.1 bytes on time 445
                                                     11 T = 150
                                                      11 135
                                            6 Ms
                                                       1.1
                          - 0
          ty ty
                                            THS
                                                       (1
 ping statistic for uo.0.0.1
        Pactels sen w. Reared = 4 tost = 0
       Approximate lound trip time in fulli seconds:
              HINIMUM = UMS, HOWINON = THS, MY = SHS
```

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Observation