configure nouting information perotocal in Routers nouting information protocol is grouters OSI - STT box o contest Ain: To Demonsterate It work the or or it where 32 oct strates and Topology: E o o o o satistata pro (Routen = PTO N= Routen-PT1+ Fred Routen-PT2 \$20.0.0.1 40.0.02 \$50.0.9.1 \$0.0.0.0 \$20.0.0.1 \$0.0.0.0.1 \$0.0.0.1 enectioning from the 9549 out the area escable Fo2/100 proposes to Fo2/1 Switch-PT2 Subth el Ecolo Le F00/0 Faolo Fall Fa6 Fall Fab PC-PT PC-PT PC-PT PC-PT PCS PC-PT PC4 PC-PT PCZ 30.0.0 20.0.03 30.0.0.2 PCO POI 20.0.0.2 Personal open cisco Packet traces and arrange as given is the topology and configure the devices as given below 10.0.0.2 Perices Connected to Switcho 10.0.0.2 Il address: PCOI 255.0.0.0 subnet mask: 10.0.1 (notouray: 0.0.3 IP address . PC1: 255.0-0.0 subnit mask. 10.0.0.2 Gateway:

```
Routeno:
       Fa 0/0 is connected to switcho
                                    a sathware to
       Fa 010 IP address is 10.0.0.1
       se 2/0 connected to growter 2
               IP address is 40.0.0.1
       Se 2/0
Devices Connected to Switch 2 de denter # (pipes) retour
       IP address: 20.002
                    255 0.0.0
        subnet mask:
                   20.0.0.1
        Grateway:
                    20.0.0.3
        IP address:
```

255.0.0.0 subnet masle: 20. Stie Method 44 (police) total Graterray:

Router 1: Fa 0/0 is connected to switch 1 Fa0/0 IP address is 20.0.0.1 Se 2/0 is connected to nowters 0 Se 210 IP address is 40.0.0.1

Se 3/0 is connected to growter 2 Se 3/0 IP address is 50.0.0.1

Devices Connected to Switch 2 PCU: Il address: 30.0.0.0.1 millione subnot mark: 255.0.0.0

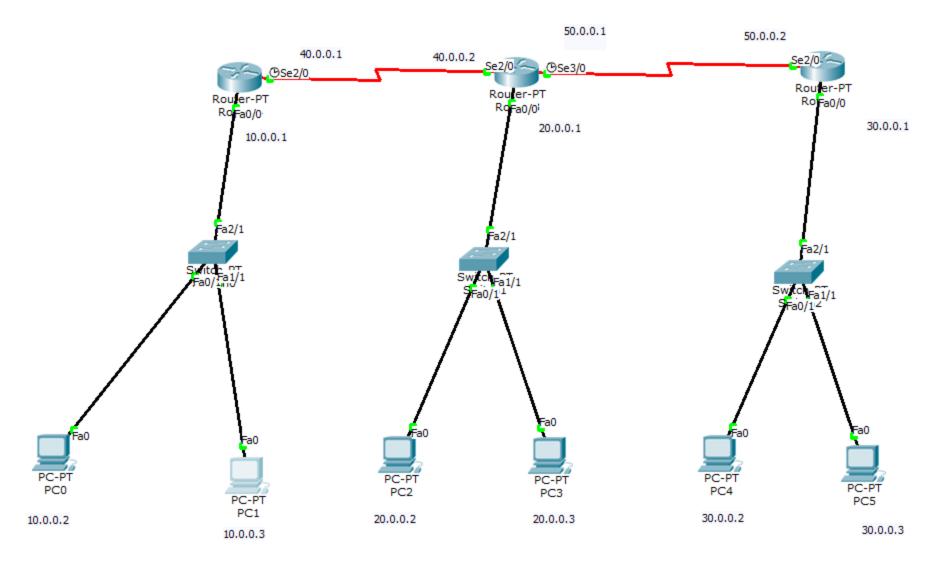
PCS: TP address 30.00.3 subnet mask : 255.0.00 Grotteway; 30.0.)

Router 2. Fa0/0 as connected to switch 2 Fa010IP address is 30.0.0.1 se 2/0 is connected to nouter! Se 2/0 I Paddress is 50.0.0.2

a leastery

For Each Router do the Ballowing. 01503 Routero: o. o. o. o. asuthda 9.7 015 50 Router (config) # grouter grip network 40000000 network 2000000 olo sho 225 shear terdus 1.0.0.00 : Essephone 95 Router 1: Router (config) ## grouter sup. : show tendas network 30.0.0.0 return Oceanies et pressures ai o/200 Routes 2: Router (config) # 9 router grip

network 30.0. 5.00 retwork so. o. o. o. Palatine at between deine Observation: Observation: Short and short with each other and shore Olsowation: their noutling table among each other after they are configured with nouting info protocol. once RIP is activated in Routus, every nouter share its neutric protocol with its innediate neighbours. Hence is iterations every growter will know about all PC. that their neighbours are connected to.



```
Router(config-router) #network 10.0.0.0
Router(config-router) #network 40.0.0.0

Router(config-router) #network 40.0.0.0
Router(config-router) #network 50.0.0.0
Router(config-router) #network 20.0.0.0

Router(config-router) #network 20.0.0.0

Router(config-router) #network 30.0.0.0
Router(config-router) #network 30.0.0.0
Router(config-router) #network 50.0.0.0
```

```
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=2ms TTL=126
Reply from 20.0.0.2: bytes=32 time=3ms TTL=126
Reply from 20.0.0.2: bytes=32 time=2ms TTL=126
Reply from 20.0.0.2: bytes=32 time=2ms 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 = 2ms, Maximum = 3ms, Average = 2ms
```