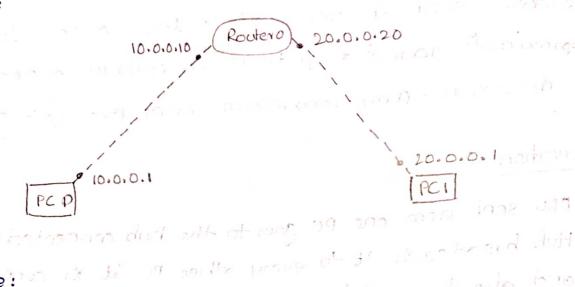
## Experiment - 2

Name of the experiment: create configure IP address to routers in packet tracer. Explore the pollowing messages: ping responses, destination unreachable, request timed out reply

2a:

Aim: To Consigure IP address to routers in packet tracer and get req ping responses - request timed out, reply.

Topology:



## Procedure:

· & PCs are connected to a router using copper cross over

- Astraia & onto min

- · IP addresses one set for PCs and Touten
- The address got Routes is set wing gollowing commands—

  vouter > enable

  router # config t

  router (config) # ip address 10.00.10 255.000

  router (config) # interface fastethernet 0/0

router (config-it)# ip address 10.0.0.10 255.0.0.0

router (config-1) # no shut router (config-1;) # exit zirtidan router (config) # int

router (config-ig)# intergace joutenethemet 10
router (config-ig)# ip address po.o.o.10 255.0.0.0
router (config-ig)# no shut

after all IR are set, ping musage is sent.

Result: PC> ping 20.0.0.1

pinging 20.0.0.1 with 32 bytes of data:

Request timed out

Reply from 20.0.0.01: bytes: 32 time=0ms TTL=127

Reply from 20.0.0.1: bytes = 32 time = 0 ms TTL=127

Reply from 20.0.0.1: bytes = 32 time= 0ms TTL= 127

Ping statistics for 20.0.0.1:

packets: sent = 4, received = 3, lost = 1 (25% loss), approximate found trip times in milli-seconds:

Residen

minimum = oms, Maximum = oms, Average = oms

## observation:

pc o is in network 10.0.0.0 and Pc is in 20.0.0.0. Hence we use router to connect them. when a ping mexage is sent from networ. Pc 10.0.0.1 to 20.0.0.1, it the mexage reaches the destination through router. when a mexage is sent, the router captures it and sends to the net distination Pc which is in another network.

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Aim: To configure IP address to routers in packet tracer of get ping responses, destination host unreachable.

Teplies.

Topology:

10.0.00 Touters) 20.0.0.10 20.0.0.20 30.0.0.20 40.0.0.10

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10.0.0.1

Procedure: 159 box acidal draming and a sal

- · Connect extresponding PC to corresponding routers using copper cross-over
- · connect routers wing serial Det.
- · set IP address por PCs. It nottented.
- · configure IP address to routers by giving commands in
- · Azten all IPs are set, ping PC to get distinction hast unreachable menage
- · route the IPs to the adjacent IPs using following command -

for routero - router (config)# 30 ip route 30.0.0.0
ass.0.0.0 20.0.0.20

router (config) # ip route 40.0.0.0

por nouter 1- router (config) # ip route 10.0.0.0 255.000

routen (config) # ip route 40.0.0.0 255.000

por routen 2- router (config) # ip route 10.0.0.0 255.000

router (config) # ip route 20.0.0.0 255.000

router (config) # ip route 20.0.0.0 255.000

• Apten this is done, ping pc to get reply memages.

Result:

0 PC> ping 40.0.0.1

reply from 10.0.0.10: Destination host unreachable Peply from 10.0.0.10: Destination host unreachable Ping station for 40.0.0.1:

theory of the realist change start of the religion than the freeze from the first start of the formal from the formal formal the first start of the result.

The makings received the distinction.

Pinging 10.0.0.1 with 32 bytes of datas

Reply from 10.0.0.10: bytes = 32 time: Imy TTL=128

Reply from 10.0.0.10: bytes = 32 time: 1my TTL=128

Raply from 10.0.0.10: bytes = 32 time: 2ms TTL=128

Raply from 10.0.0.10: bytes = 32 time: 4ms TTL=128

Reply from 10.0.0.10: bytes = 32

ping station for 10.0.0.1:

Packets: sent: 4., Received = 4, loss = 0, (0% loss)

Approximate round trip times in milli-seconds.

Minimum= 1 ms, maximum= 16 ms, average = 6 mg

of the second se office is an unique

## Observation:

SIXI

PCO is in network 10.0.0.0 and PCI is in network 40.0.0.0. There the 3 routers in between which initially directly connects, 10.000, 20.0.0.0, 30.0.0.0 are tho.o.o.o. Hence when a ping mexage is sent from Instead it only reaches the first router and gives destination host not curreachable mexage.

After letting the routers know about other adjacent networks, (next hop) we send a ping minage from 40.0.0.1 to 10.0.0.1 to get desired tep result.

The mexage reaches the dostination.

