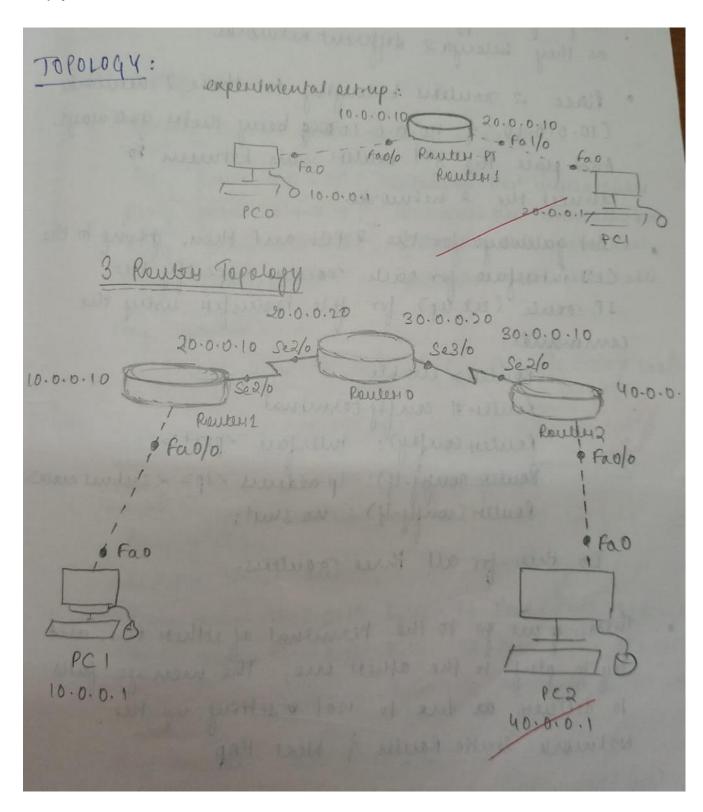
## **Experiment 2**

**AIM**: Configure IP address to routers in packet tracer. Explore the following messages: ping responses, destination unreachable, request timed out, reply



- Take 2 PCs and place them as shown,
  assynty & different IP addresses (10.0.0.1 3, 40.0.0.0)
  as they belong 2 different networks.
- Let galeways for the 2 PCs and then, going to the CLI intereface for each vallent, specify the IP valle (set by) for file transfer wanty the commands:

Router + config terminal

Router config: rutiface <port>

Router config: ip address <ip> < subnet masks

Router (config-if): no shurt;

Do this, for all three soulers.

- then, of me go to the hermand of atthese PCs, and try to pany to the ather one; The mensage parts to deliner, as due to not a setting up the Netmark static Roules of Next Hap
- " we again go the CLT of each router and we setup the "wat hop" wany the command:
  - eg: > ip route <network-id> < mask> <next-hop)

    Gov route 40.0.0.0 215.0.0.0 20.0.0.20

    (for router 1)

· This is done so that the routed necessizes which particular to be take when particular is necessed for a particular destination.

## **OUTPUT:**

```
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.1

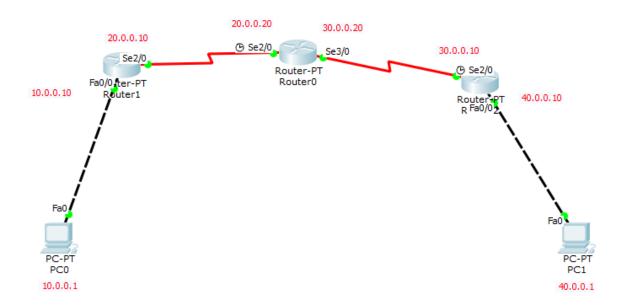
Pinging 40.0.0.1 with 32 bytes of data:

Reply from 10.0.0.10: Destination host unreachable.

Ping statistics for 40.0.0.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC>
```



## OBSERVATION:

## Observation:

. The roules connects LAN to the intermet. It connects "different networks" with loffnent herwerk ide

North British in terms of their old

- · Packets are forwarded to the destination through network hopping
- · Serial ports are used to connect 2 roulers } the connecting cables are servial connectors.
- · At first, it shows destination unoveachable, as are distrit home any pathway, i.e., we hadn't set up the "next hop" connecting the different networks
- Next, it shows request timed out for the first Mequest, as it takes time for the roulens to find
- finally, the packet destination is set and our ply is successful and we get a neply from our Sistination PC.