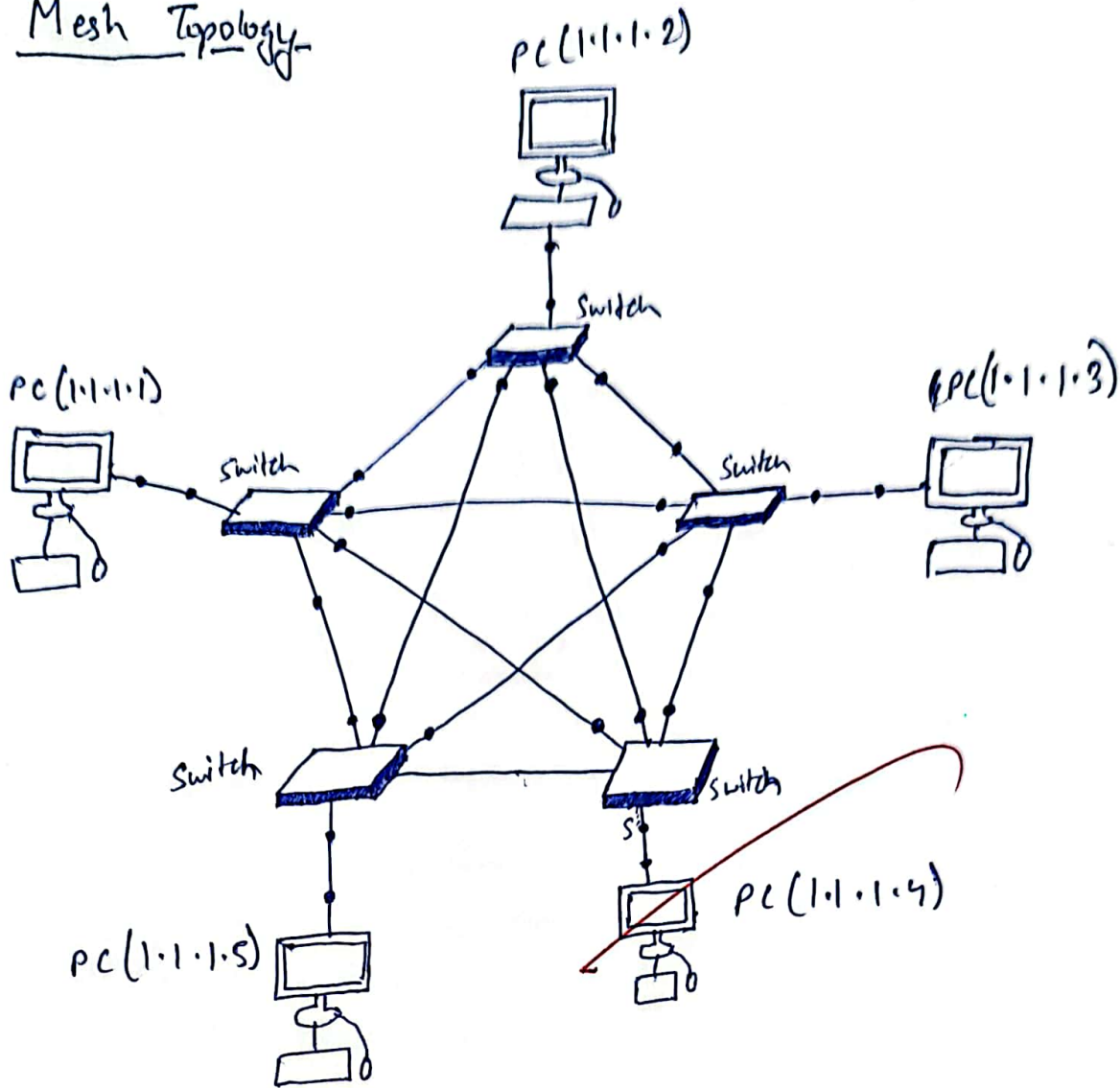


Assignment-3

1. Mesh Topology



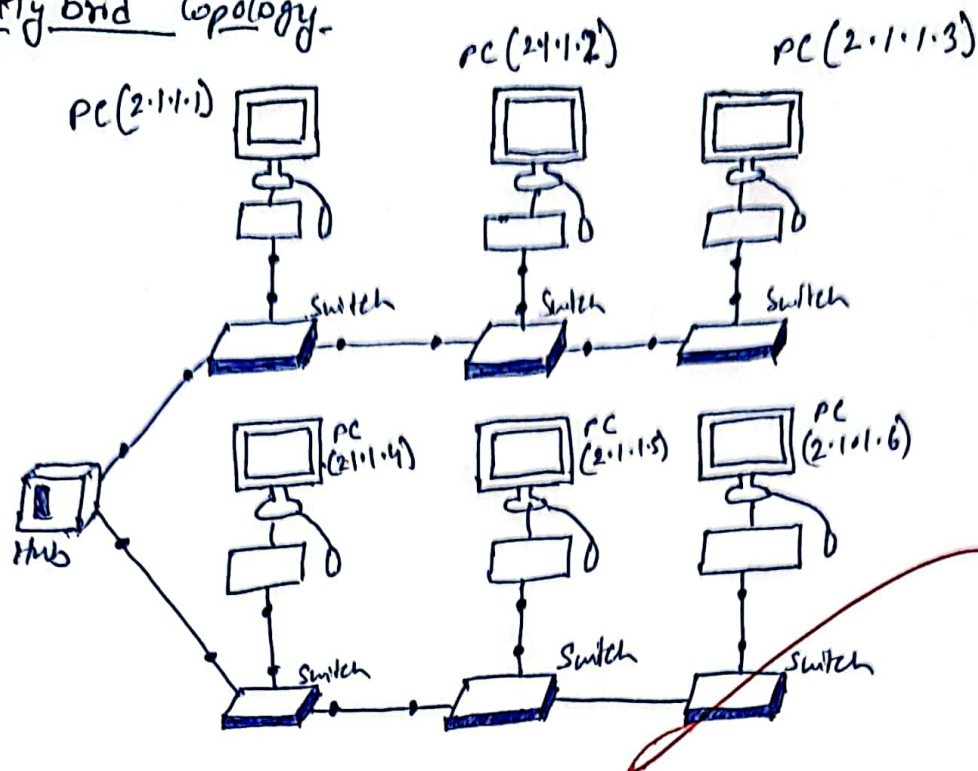
- At first 5 switches (2960-24T), 5 PCs (Generic) are selected from the box then 5 switches are connected with each other through copper-cross over cable and each is connected to a PC through a copper straight through cable.
- Now we have to assign each PC's IP address respectively
1.1.1.1 - 1.1.1.5
- Now write ping command from any PC's command prompt to check the connection.
ping 1.1.1.3 (from PC 1.1.1.1)

Output:

sent 24, Received 24, lost 0 (0% Loss)

2.

Hybrid Topology-



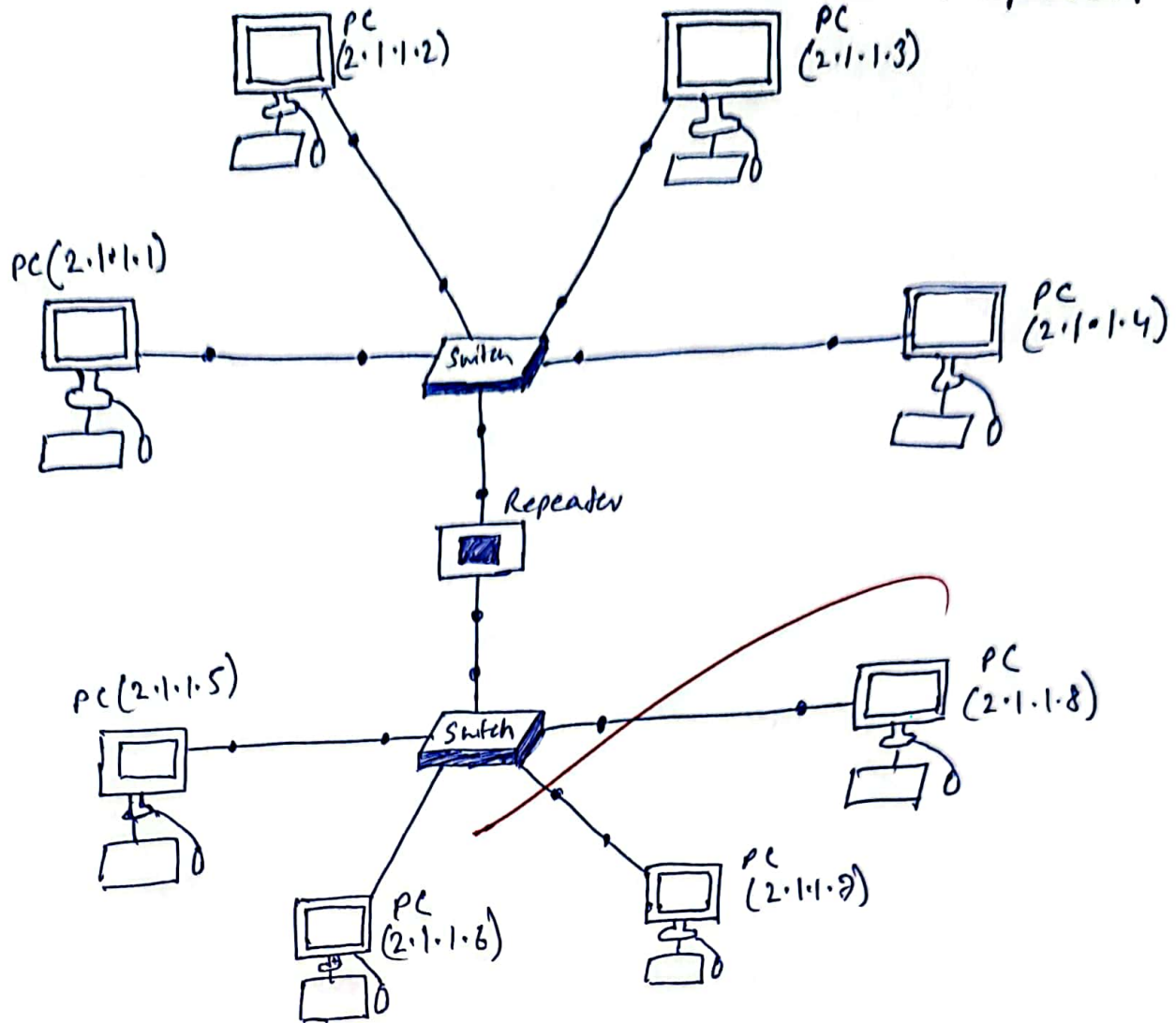
- At first 6 switches (2960-24T), 6 pc's (generic) are selected from the toolbox then 6 switches are connected with each other pc through a copper straight through cable and ~~another~~ 3 switch are connected with each other with copper cross over cable and another 3 with same way.
- Now the 1st & 3 set of three switch is connected with hub and the other set of 3 switch is connected with ~~the~~ the same hub in the same way.
- Next, we have to assign each PC's IP address respectively 2.1.1.1 - 2.1.1.6.
- Now we have to write ping command from any one pc's command prompt to check the connection.
ping 2.1.1.5 (from PC 2.1.1.1)

Output:

sent 24, Received 24, Lost 0 (0% Loss)

Design a LON with 8 pins

PC
(2,1,1,3)



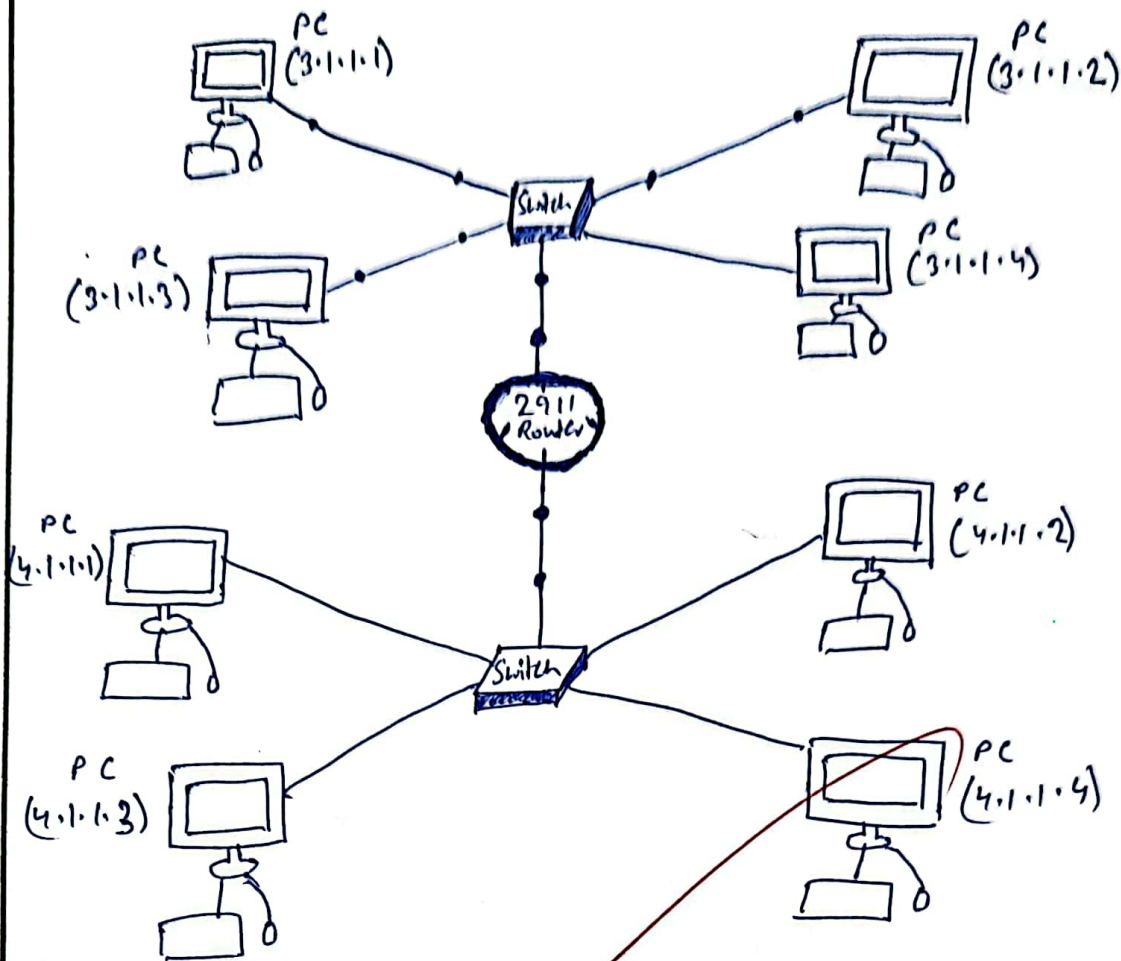
- One Switch is connected to 4 PCs and another switch is connected to another 4 PC's with IP addresses from 2.1.1.1 to 2.1.1.8 respectively.
- Then each switch is connected with same repeater.
- Now write ping command from any PC's command prompt. to check the connection.

proving 2.1.1.11' (from PC 2.1.1.5)

Output:


nd:
sent = 4, Received = 4, Lost = 0. (0% Loss)

4. Design a WAN with 8 pcs 2 switches 1 router.



- One switch is connected to 4 PCs and another switch is connected to another 4 PC and with router (2911) at port Gigabit Ethernet 0/0. ~~the~~ IP address of router will be 3.1.1.0 and the PCs will be 3.1.1.1 - 3.1.1.4 respectively. Make the PCs default gateway as router's IP address 3.1.1.0.
- Another switch is connected to another 4 PCs and with router (2911) at port Gigabit Ethernet 0/1. IP address of router will be 4.1.1.0 and the PCs will be 4.1.1.1 - 4.1.1.4 respectively. Make the PCs default gateway as router's IP address 4.1.1.0.
- No write ping command from any PC's command prompt to check the connection.

4. Design a test with 2 PCs & switches & routers.

 ping 3.1.1.1 (from PC 4.1.1.2)

Output:

sent 24, Received 4, Lost 20 (0% loss).

flaw
3/8/23