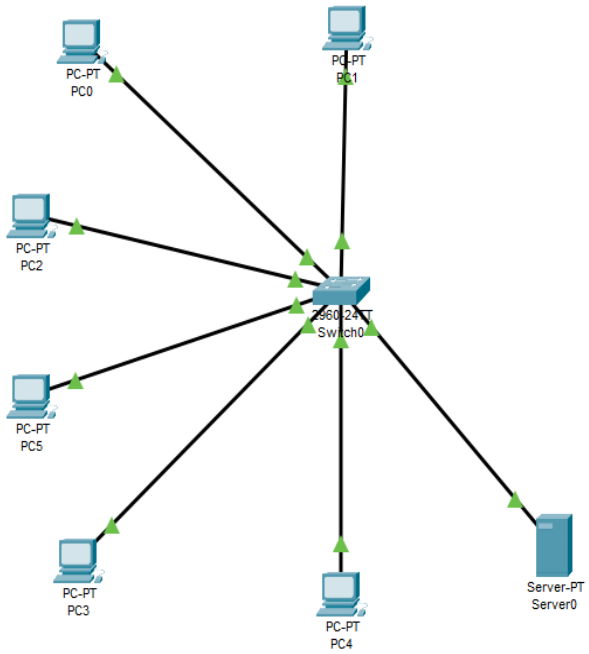
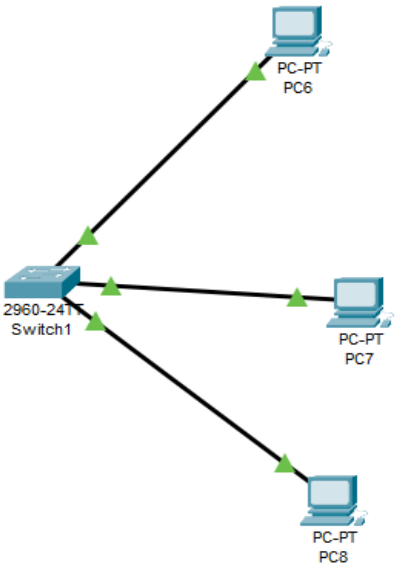
Rollnumber:- 22P31A05B1
Date:-06-07-2024

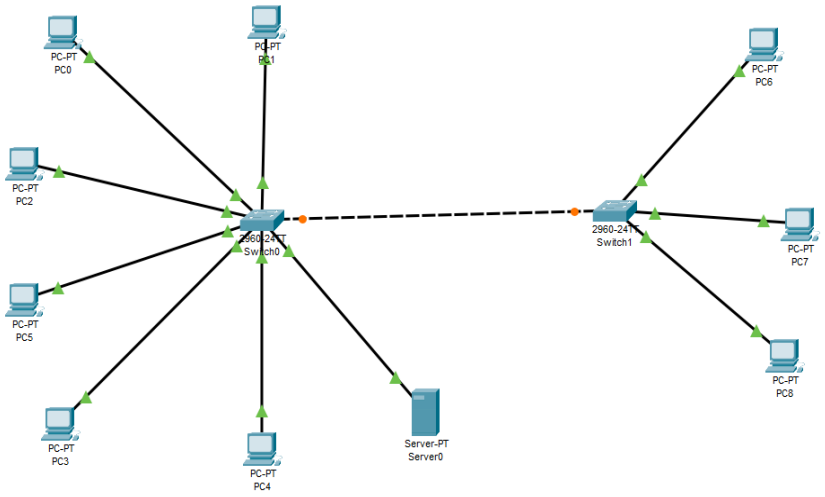
1. Connect switch with minimum 6 devices that should include a DHCP server



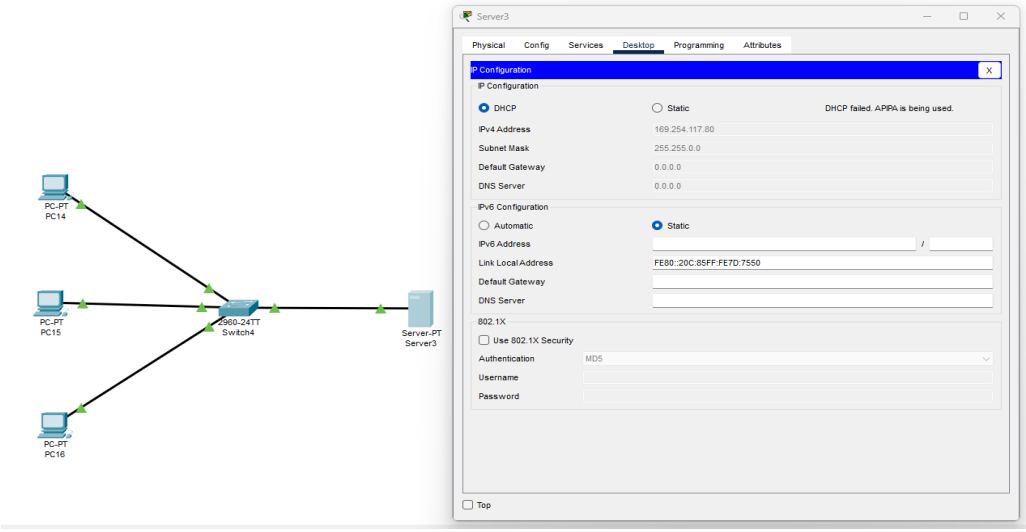
2. Connect another switch with minimum 3 devices



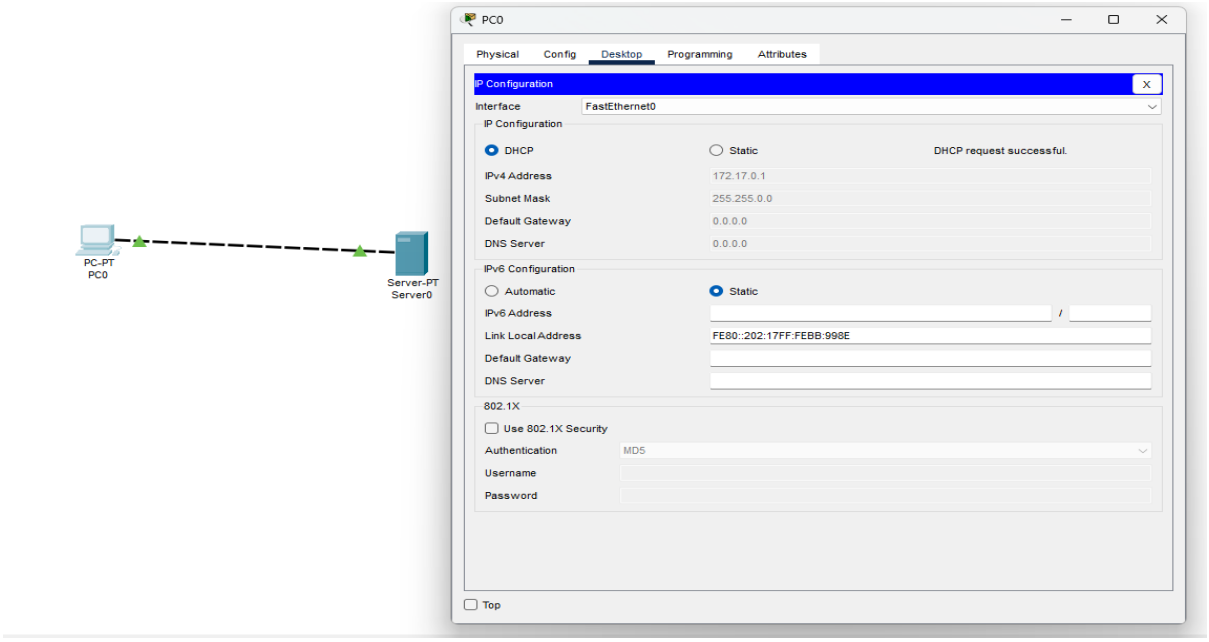
3. Connect 2 switches together



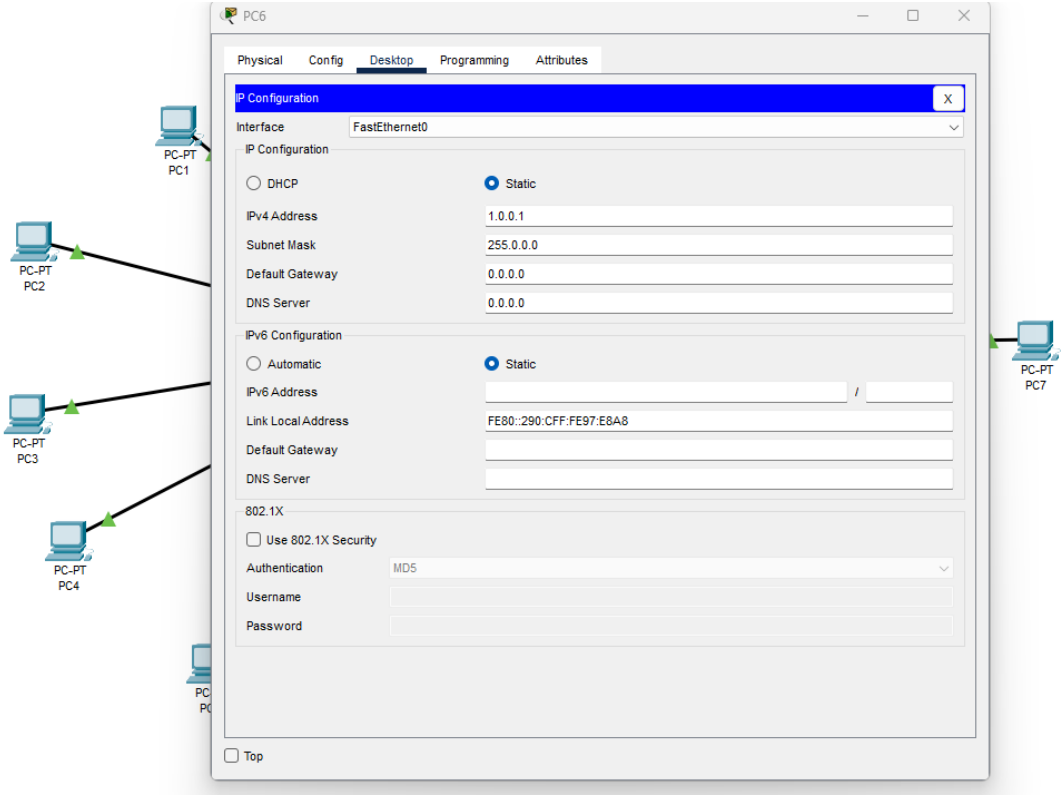
4. Devices in first switch should get IP Addresses from DHCP Server



5. All the DHCP IP addresses should start from 259th usable IP of 172.17.0.0/23 network



6. Manual IP Address should be assigned to DHCP Server and this should be one IP Address before the start of DHCP IP Addresses
7. Manual IP Addresses should be assigned to devices of second switch



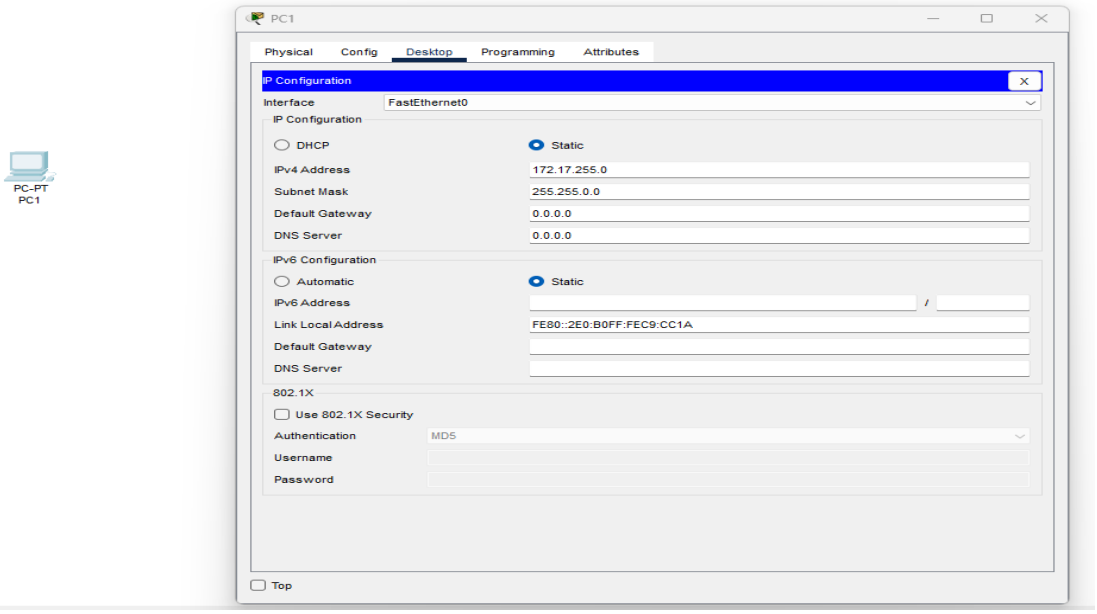
8. These IP Addresses should be from 509th usable IP of 172.17.0.0/23 network

Req 509th IP

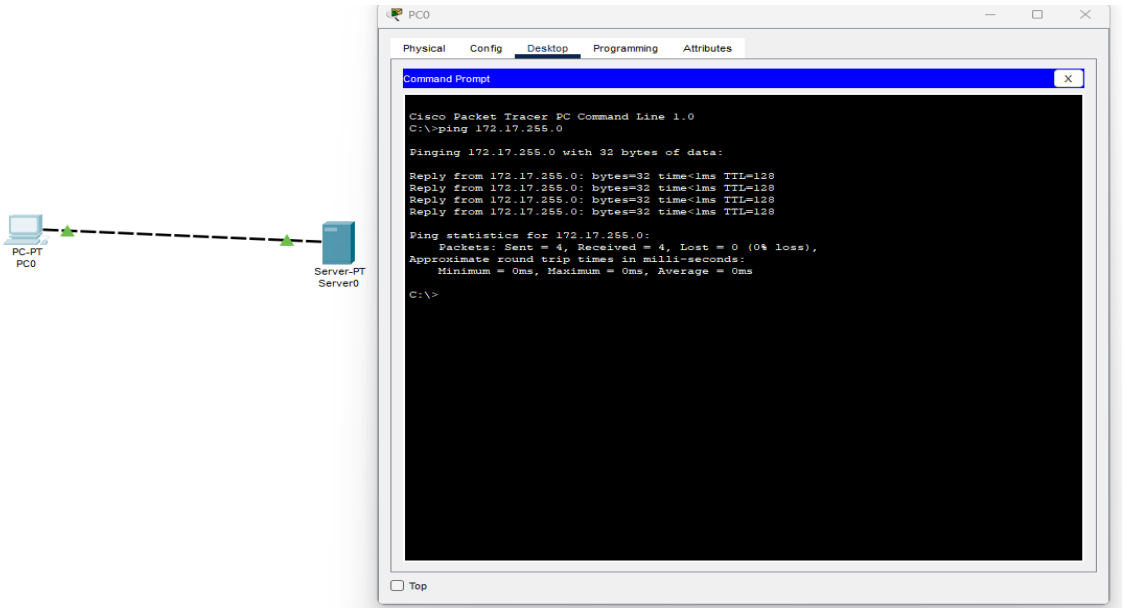
2^h – 2^9 – 512

172.17.11111110.00000000

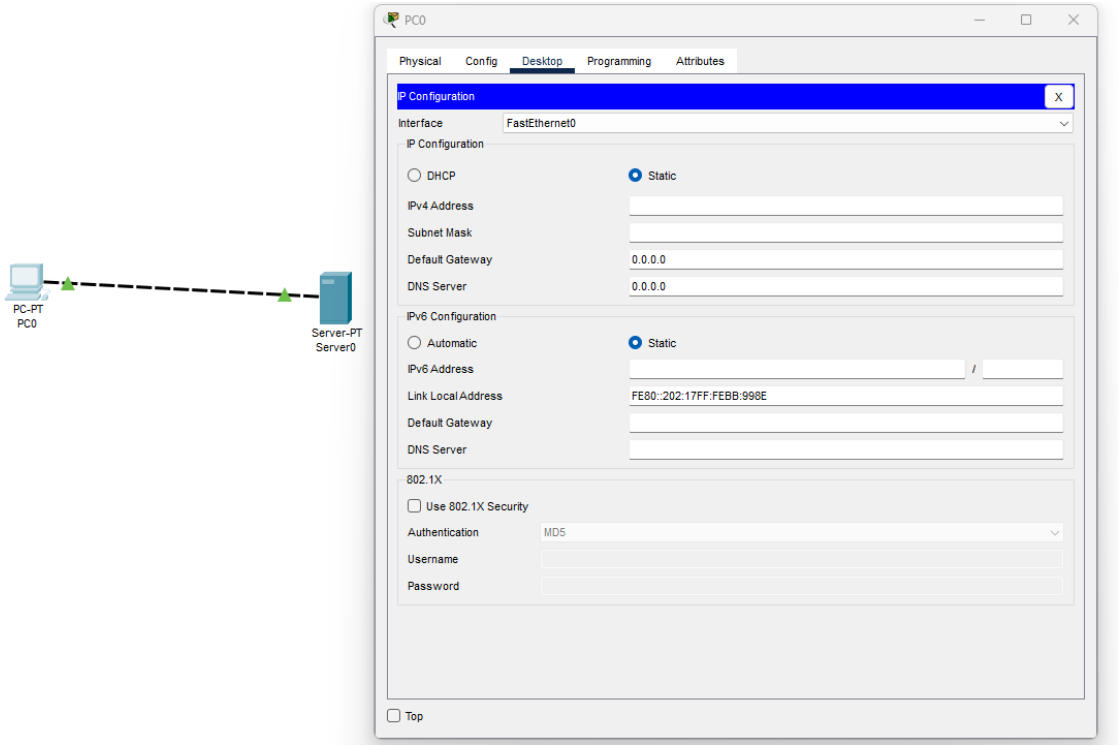
172.17.255.0/23



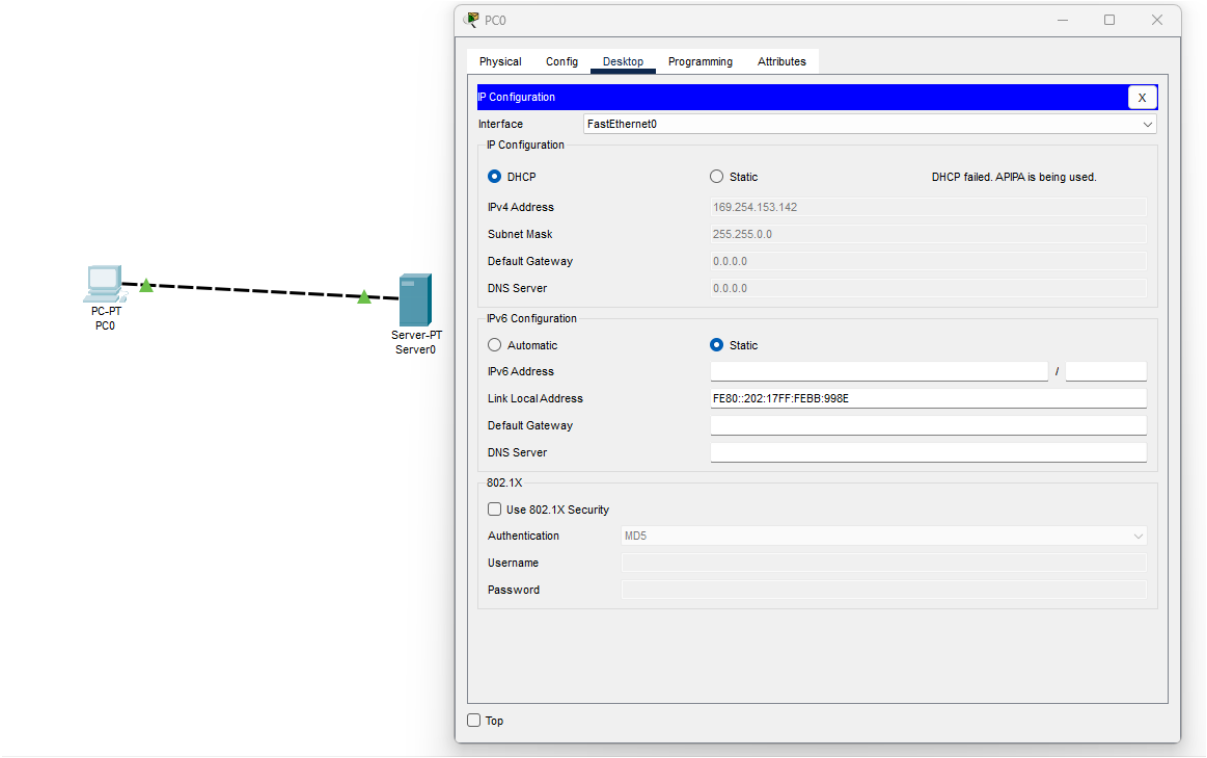
9. Ping from 259th IP Address device to 510th IP Address device, and write your observation below



10. Disable the DHCP service and check which IPs the client devices receive



11. Ping the received IP addresses and write observation



- It will show that dhcp failed .APIPA is being used