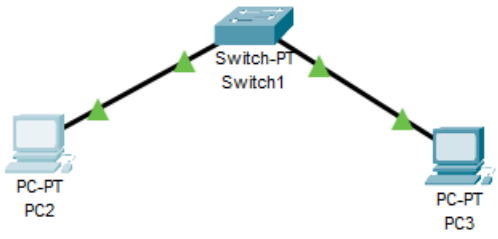
MODULE 3 AND 4 ASSIGNMENT SOLUTIONS

I.Simulate a small network with switches and multiple devices. Use ping to generate traffic and observe the MAC address table of the switch. Capture packets using Wireshark to analyze Ethernet frames and MAC addressing.

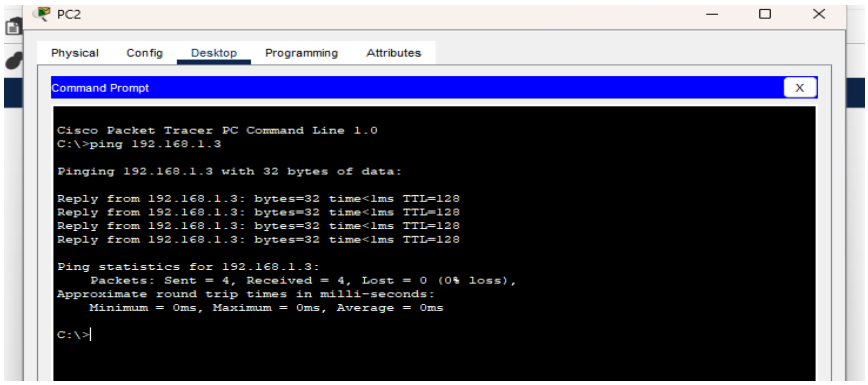
2.Capture and analyze Ethernet frames using Wireshark. Inspect the structure of the frame, including destination and source MAC addresses, Ether type, payload, and FCS Use GNS3 or Packet Tracer to simulate network traffic.

Cisco Packet Tracer:

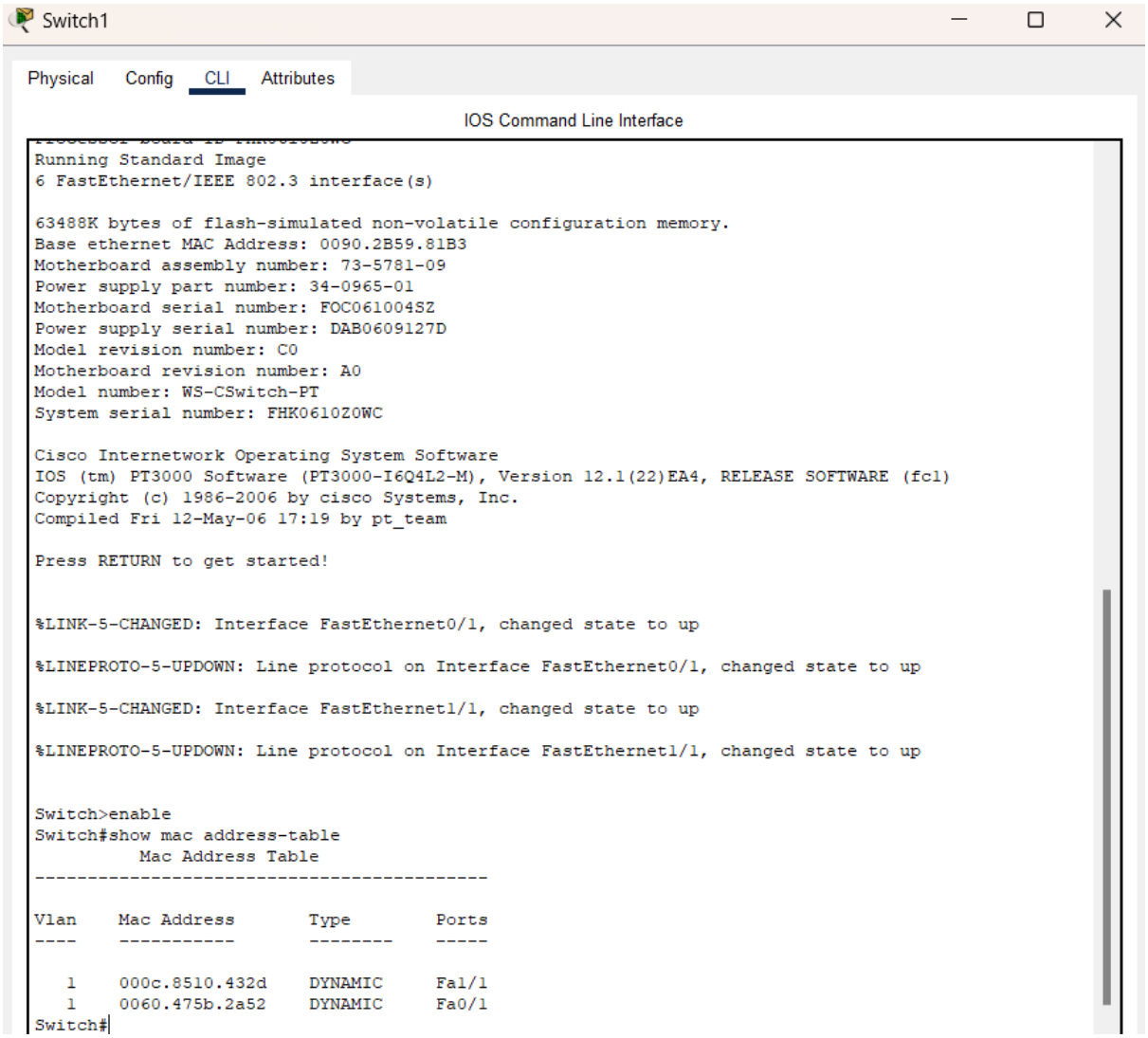
1. Network topology setup in cpt
   Devices used:
   - 2 pcs (PC 2 AND PC 3) IP ADDRESS: 192.168.1.2 AND 192.168.1.3
   - 1 switch (Switch – PT)



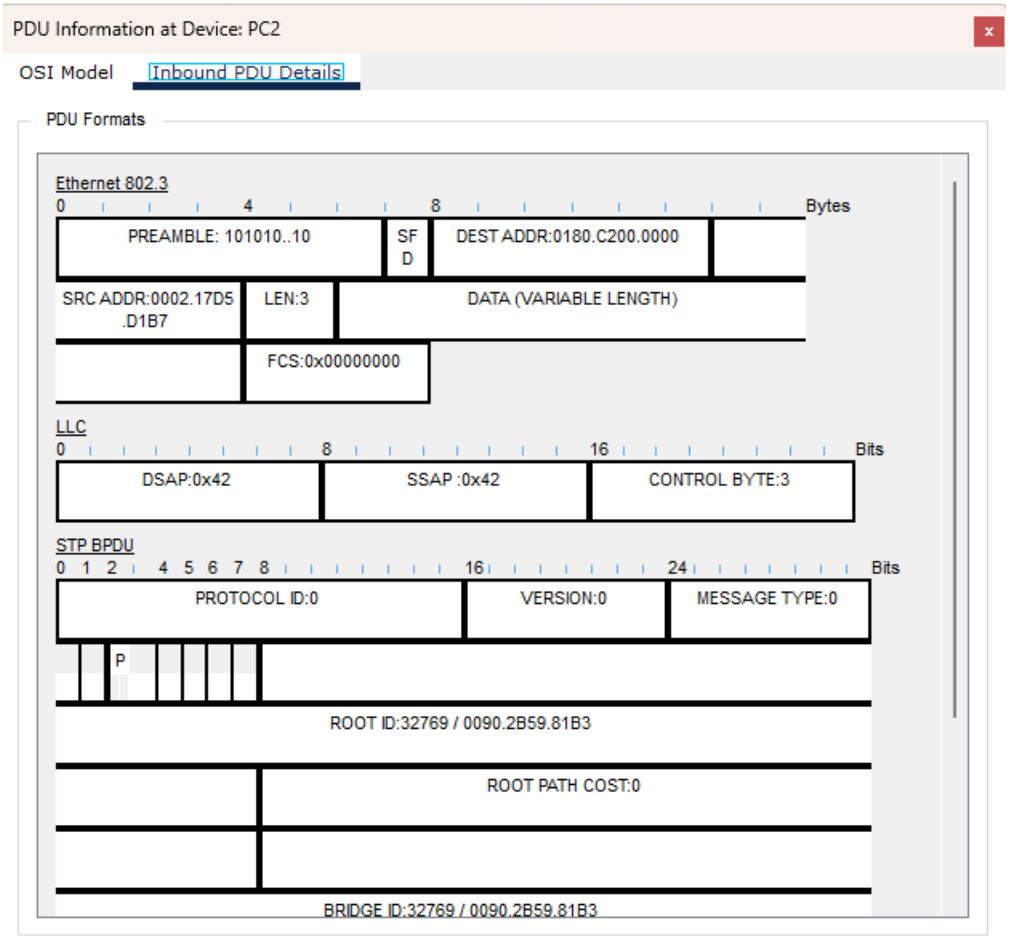
2. Ping :

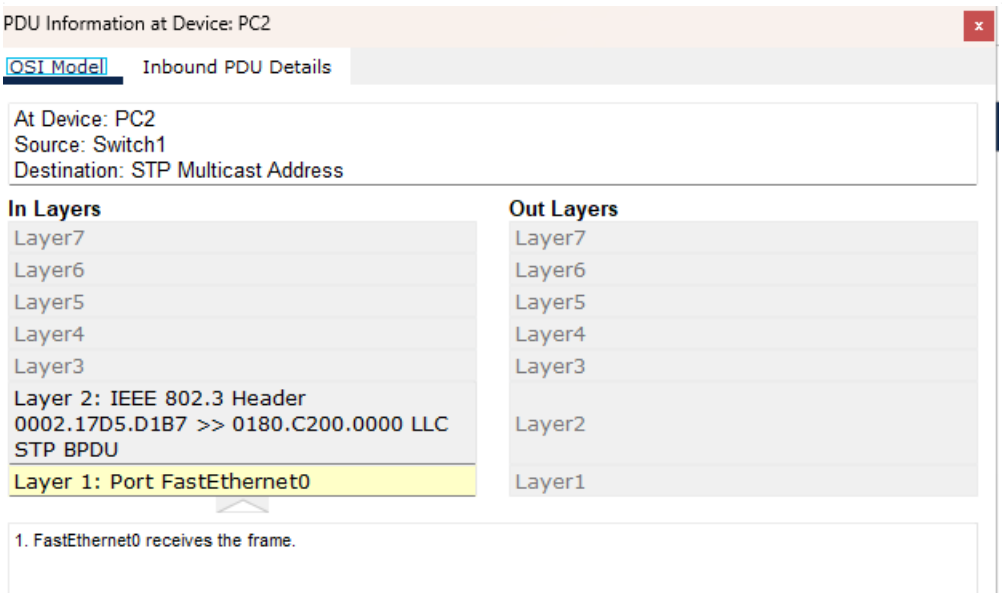


3. MAC Address table of switch:



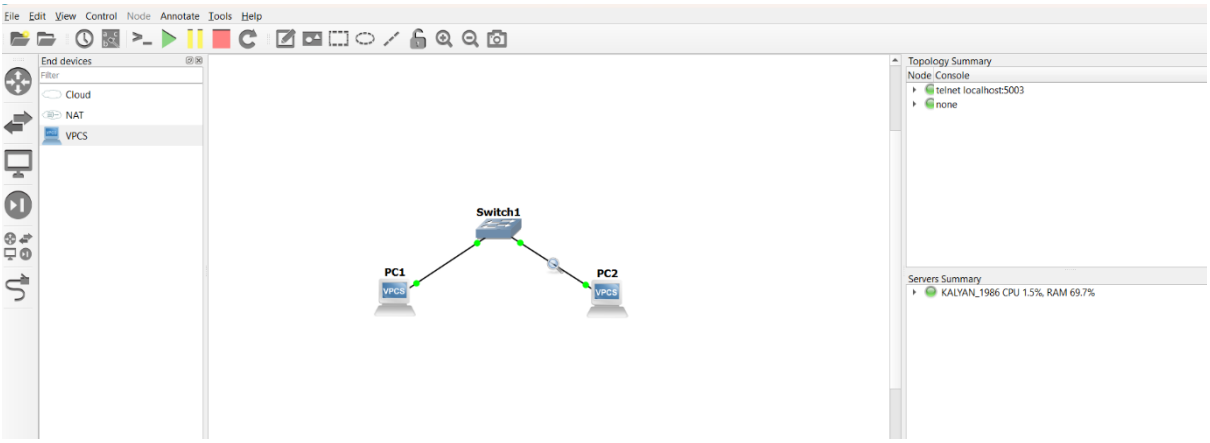
4) Frame analysis:



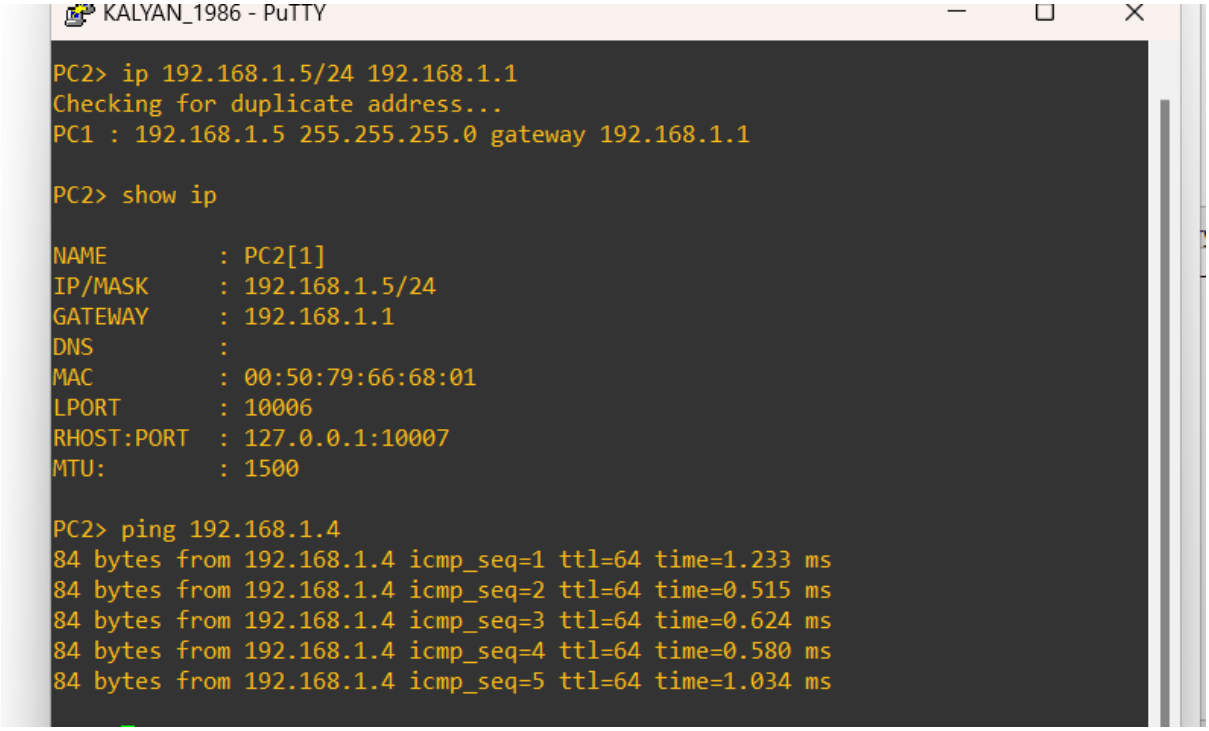


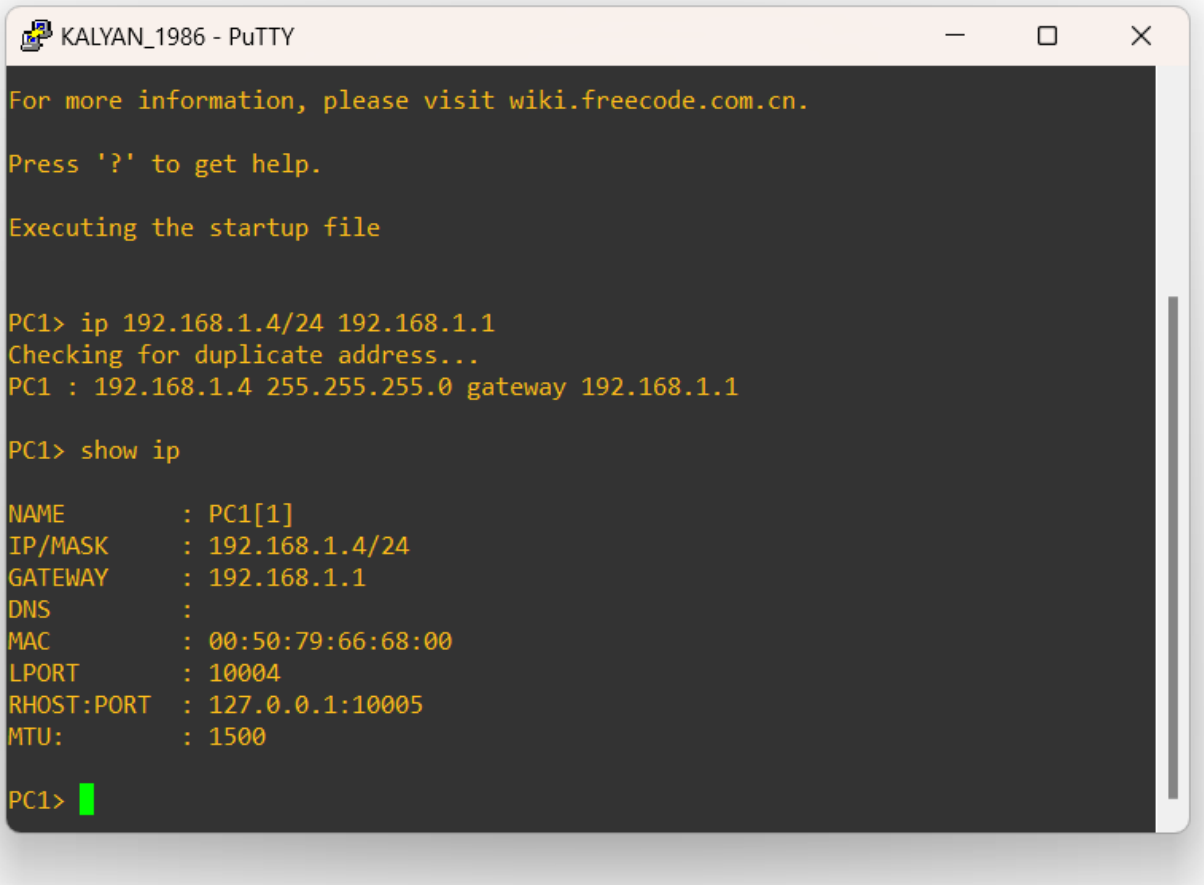
USING GNS 3:

1) Network topology



2) IP Setup and Ping Connection Check:




KALYAN_1986 - PuTTY
For more information, please visit wiki.freecode.com.cn.
Press '?' to get help.
Executing the startup file
PC1> ip 192.168.1.4/24 192.168.1.1
Checking for duplicate address...
PC1 : 192.168.1.4 255.255.255.0 gateway 192.168.1.1
PC1> show ip
NAME : PC1[1]
IP/MASK : 192.168.1.4/24
GATEWAY : 192.168.1.1
DNS :
MAC : 00:50:79:66:68:00
LPORT : 10004
RHOST:PORT : 127.0.0.1:10005
MTU: : 1500
PC1>