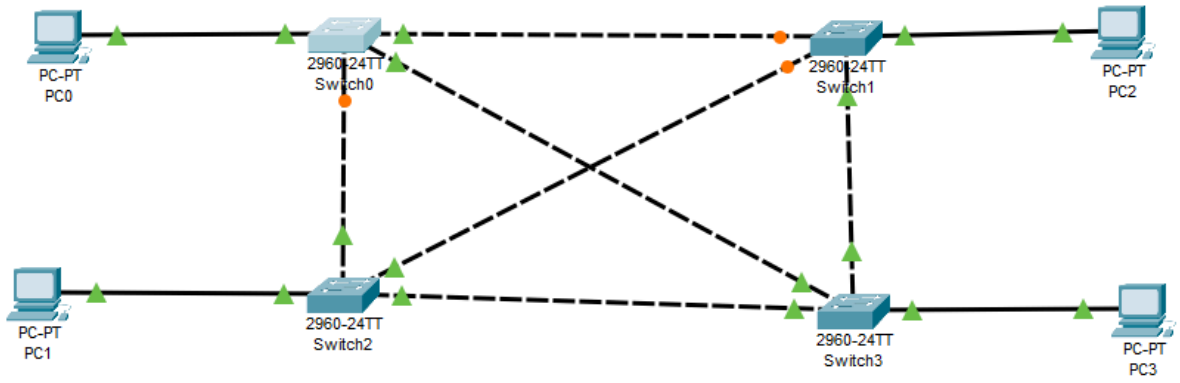
Lab Tasks

Important Note:
Your PC's and connecting device's name with your roll no.
Example:
Switch0001, PC0001

1) Design and configure the network in the figure below.
   Check the connectivity using the SIMPLE PDU. (Do it for two different PC's)
   Both for real-time and Simulation mode.
   Show the ARP packet header format in Cisco Packet Tracer. (Two PC's)
   Note: Show each step in the form of screenshots.



2) Which device creates a single collision domain? (Device name)

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3) Which device is more efficient at managing network traffic? (Device Name)

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4) Which mode allows pause and step through network events? (Mode name)

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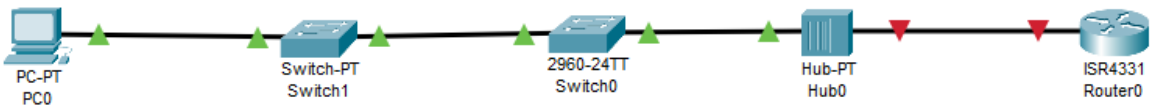
5) Consider the following figure. The PC is connected to the switch console port. All the other connections are made through Ethernet links. Which types of UTP cables can be used with segments 1, 2, 3, and 4?



6) Create a network using Packet Tracer having eight PC's with 4 of them in one broadcast domain and the remaining 4 in another multicast-cast domain achieve this by using HUB, SWITCH, and BRIDGE. Assign IP addresses using the **DHCP** protocol in one domain and static IP in another.

Check the connectivity using the SIMPLE PDU.

Show steps in the form of screenshots.

[HINT: HUB has a single Broadcast and collision domain; broadcast domain means all devices connected will receive data of every transaction and SWITCH has a Unicast, multicast, and broadcast domain. USE 1 HUB, 1 SWITCH, and 1 Bridge having eight PCs in a Network].