CSE 4512 (Computer Networks)
LAB FINAL

PC-PT
F Fa0

Fa0 PC-PT
PC1

Fa0/4

Fa0/3

Fa0/1   2960-24TT
Sw Fa0/2

192.168.(ID)+1.0/24

Gig0/0   192.168.0.0/30

Se0/1/1

192.168.0.4/30

Se0/1/0   Se0/1/0   Gig0/1   Gig0/0   Se0/1/1

1941   1941   1941
R3   R2

192.168.(ID).0/24   Gig0/0

192.168.(ID) .0/24

Fa0/1   Fa0/1

Fa0/3 2960-2TT Fa0/2   2960-2TT Fa0/3
Switch   Switch0
                          Fa0/2

Fa0   Fa0   Fa0   Fa0

PC-PT   PC-PT   PC-PT   PC-PT
PC0   PC2   PC4   PC5
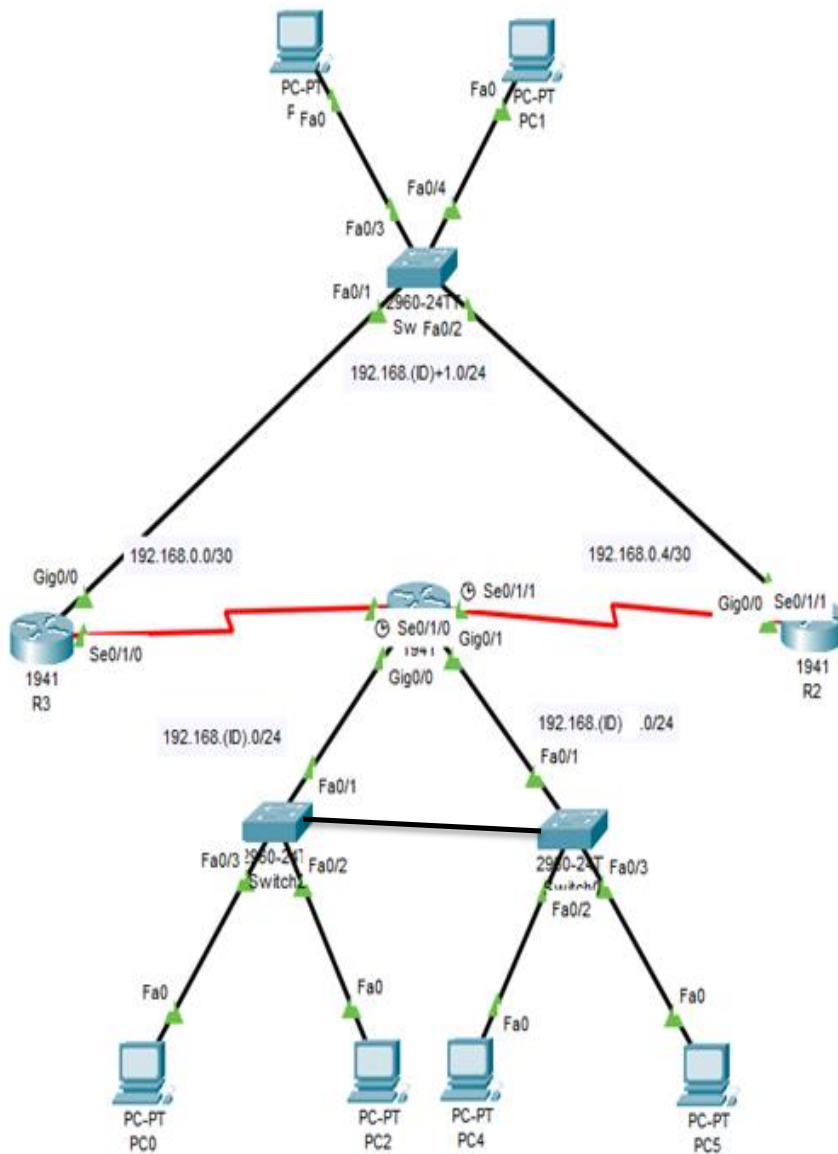
Tasks:

1. Connect all the devices exactly as mentioned in the figure with the right network devices.
2. Change the hostname of the R1 to "R1_(ID)".
3. Change the hostname of the R2 to "R2_(ID)".
4. Change the hostname of the R3 to "R3_(ID)".
5. Configure the IP addresses of the router interfaces.
6. Use DHCP(using server or router whichever you prefer) to get IP addresses for the hosts.
7. Check if DHCP is properly working.
8. For the networks with ID in the IPs:
   Use the **last 3 digits** of your student ID
9. PC0 and PC4 should be on **VLAN ID**, and PC2 and PC5 should be on **VLAN (ID+2)**. Where ID is basically last 3 digits of your student ID.
10. Configure Inter-VLAN routing to communicate.
11. Configure IPv4 static routes on necessary places to ensure connectivity.
12. Configure IPv4 floating static routes if necessary.
13. Check if static routes have been properly configured.
14. Ping different PCs.
15. Submit the .pkt or .pka file of your completed task in the Google Classroom with the name - "[Student ID]_LabFinal"