Name : Ammaar Naeem Laghari

Roll No : 20P-0180

Section: BCS-5B

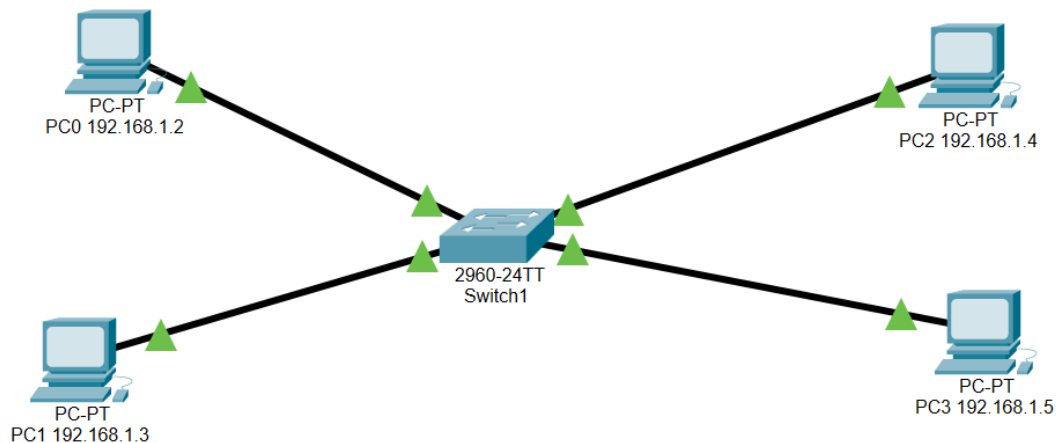**Course Name: Computer Networks LAB**

Submitted to : Mam Hurmat Hidayat
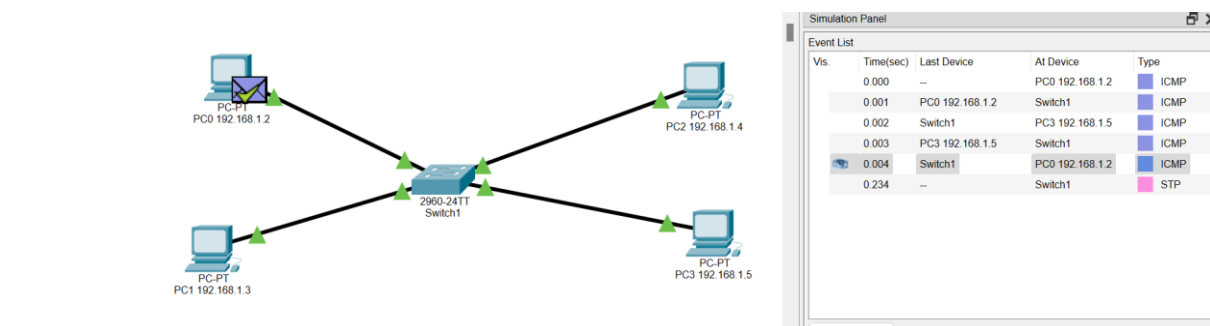
Submitted on : 9/6/2022

Lab Task

TASK 1:Perform communication of four devices using switch

1)Use the IP Address of Class C

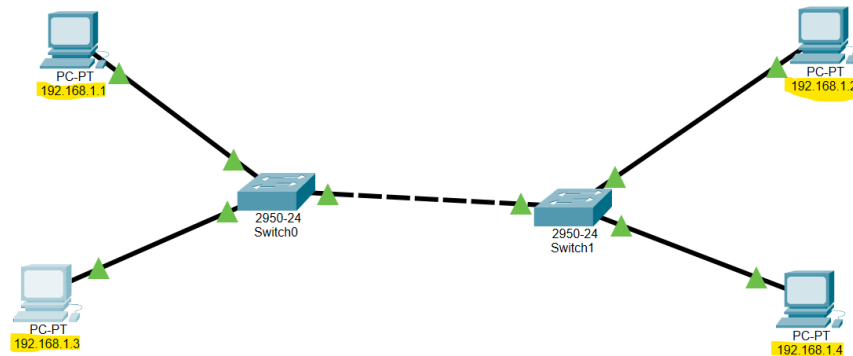2) Simulate transfer of packet between two PCs

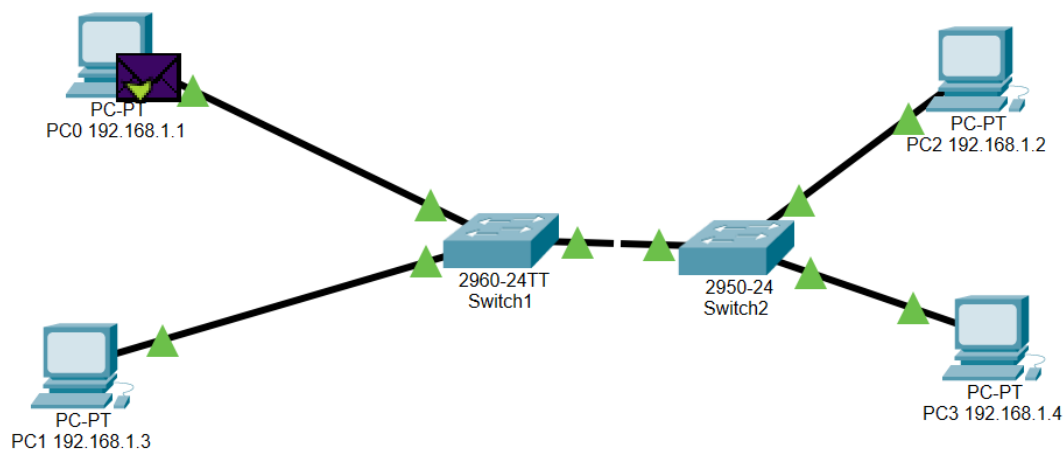3) Write brief and concise description of the whole process.

=> We connected all the PCs with same network ID with each other through switch. Then we transferred packets between two PCs, as switch is smart device it stores the Mac address of all devices which are connected to it. It transfers the packet to that PC whose address is given. And it sends back the acknowledgment to sender.

TASK 2:Perform communication through multiple switches

1)Use the IP Address of Class C

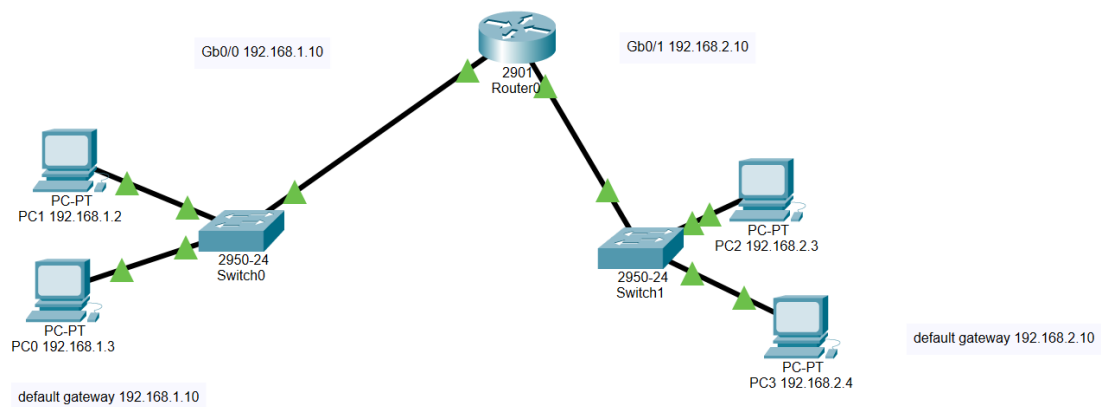2) Simulate transfer of packet between PC0 and PC3

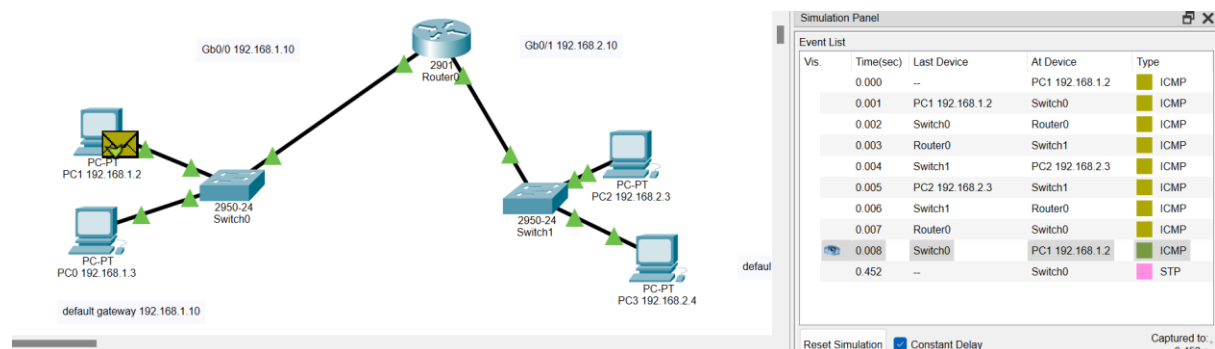3) Write brief and concise description of the whole process.

=> We connected all the PCs with same network ID with each other through switches and made bridge between all PCs by connecting both switches. We briged both LANs. Through which the mac addresses of those LAN are accessible. Then we transferred packets between two PCs and if its in the same LAN switch will transfer it to that otherwise it will send to that switch and that switch will transfer the packets.
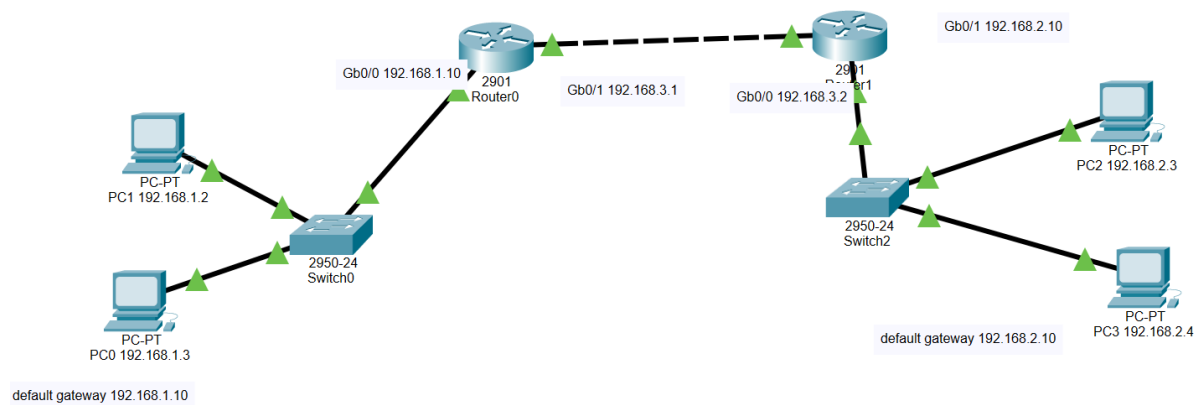
TASK 3:

1)Assign IP Address of Class C

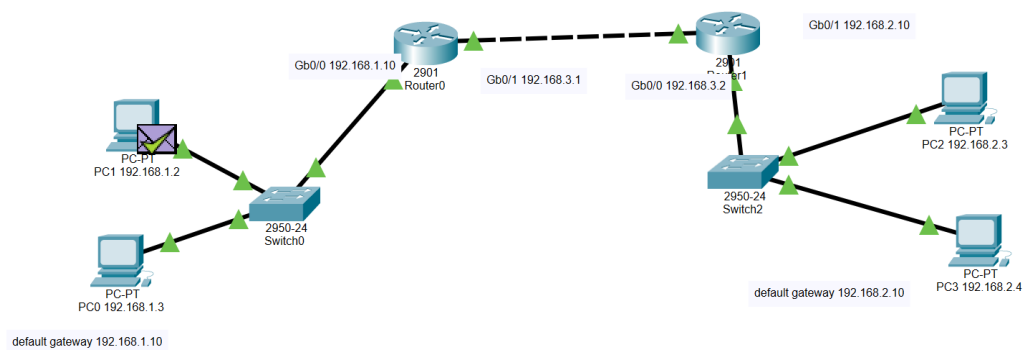

2) Transfer packet between them.
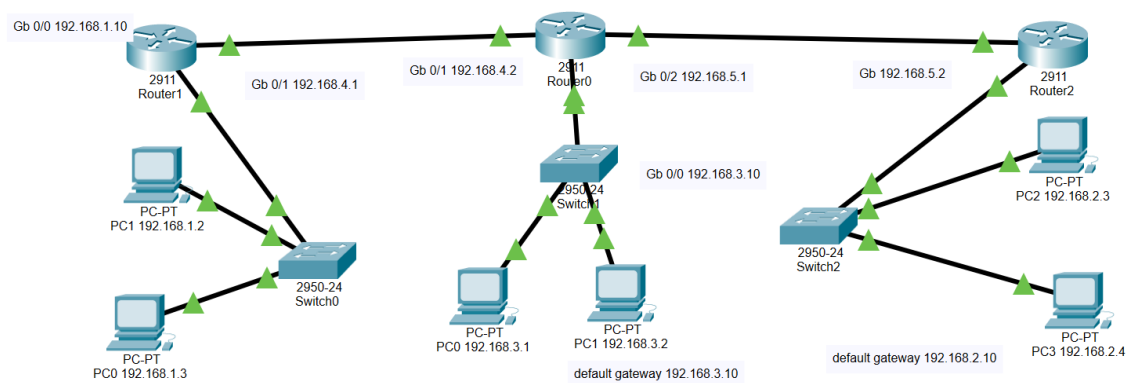
TASK 4:

1)Assign IP Address of Class C

Gb0/0 192.168.1.10
2901
Router0
Gb0/1 192.168.3.1
Gb0/1 192.168.2.10
2901
Router1
Gb0/0 192.168.3.2

PC-PT
PC1 192.168.1.2

PC-PT
PC2 192.168.2.3

2950-24
Switch0

2950-24
Switch2

PC-PT
PC0 192.168.1.3

PC-PT
PC3 192.168.2.4

default gateway 192.168.1.10

default gateway 192.168.2.10

2) Transfer packet between them.

Gb0/0 192.168.1.10
2901
Router0
Gb0/1 192.168.3.1
Gb0/1 192.168.2.10
2901
Router1
Gb0/0 192.168.3.2

PC-PT
PC1 192.168.1.2

PC-PT
PC2 192.168.2.3

2950-24
Switch0

2950-24
Switch2

PC-PT
PC0 192.168.1.3

PC-PT
PC3 192.168.2.4

default gateway 192.168.1.10

default gateway 192.168.2.10

TASK 5:

1) Assign IP Address of Class C

2) Transfer packet between them.