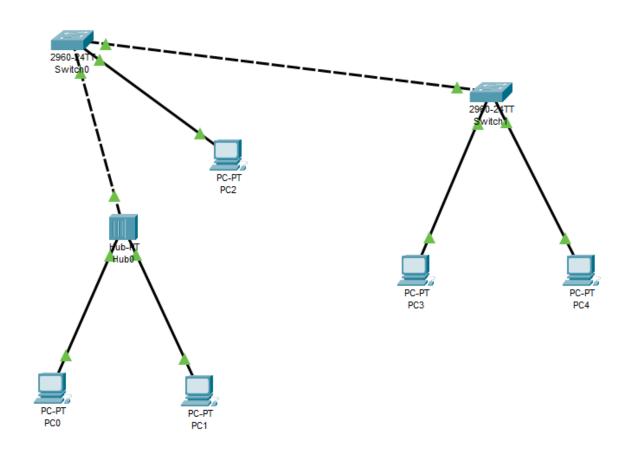
# Lab1

Conte	ents	1
Labi.		1
Setup	a simple LAN	2
Prep	pare the simple LAN shown in above diagram in your	
Wor	kspace	2
Con	figure the following IP addresses in the PCs	2
Wor	king with the Simulation mode	5
Lab1	Sheet2	7

## Setup a simple LAN

Prepare the simple LAN shown in above diagram in your Workspace.

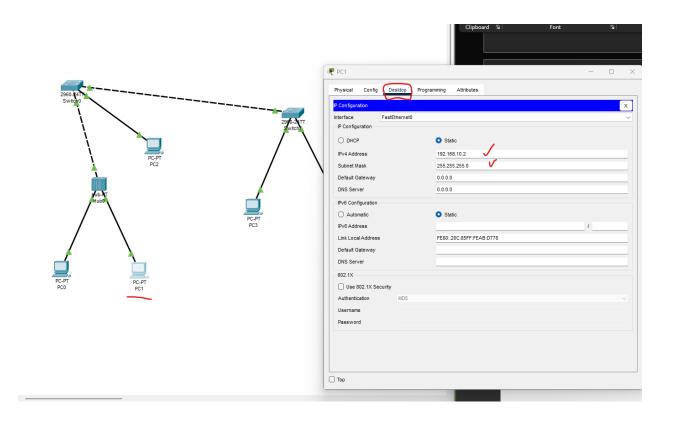


Configure the following IP addresses in the PCs.

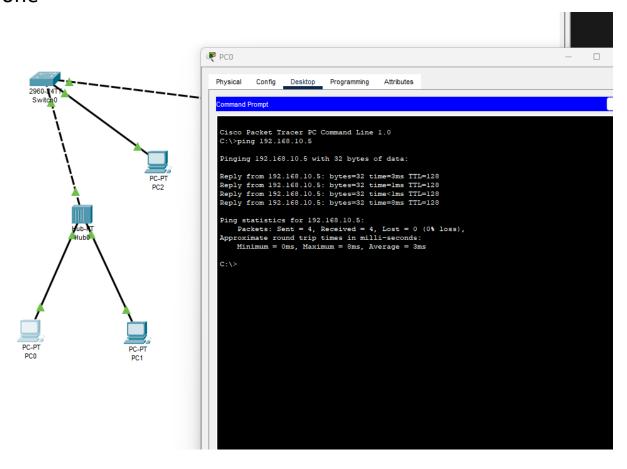
PC	IP Address	Subnet Mask
PC0	192.168.10.1	255.255.255.0
PC1	192.168.10.2	255.255.255.0
PC2	192.168.10.3	255.255.255.0
PC3	192.168.10.4	255.255.255.0
PC4	192.168.10.5	255.255.255.0

## Steps to configure

## 1. Select the PC and go Desktop $\rightarrow$ IP configuration

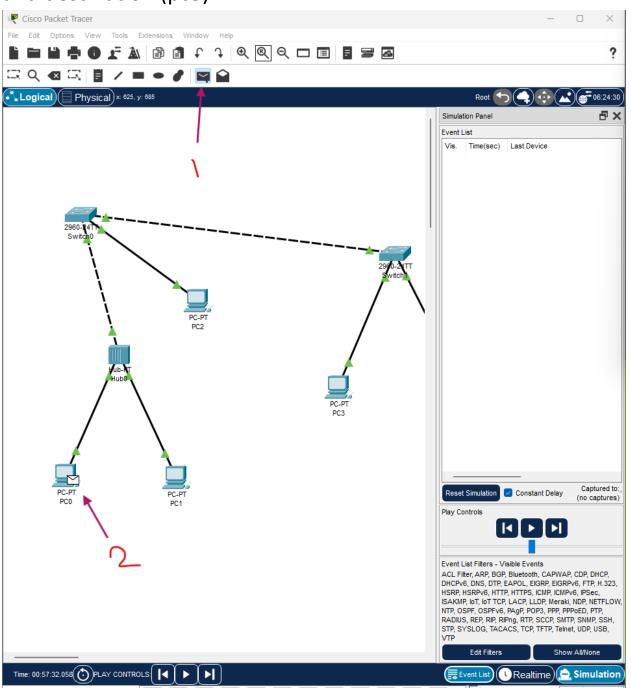


# 2. Using ping command check whether your connection is done

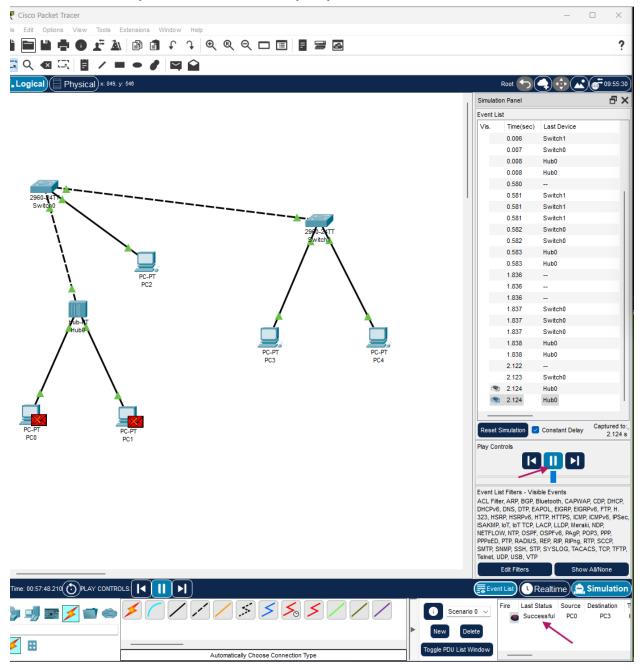


### Working with the Simulation mode

- 1. Go to Simulation mode.
- 2. Click on simple PDU and click on source device (PC0) and destination (pc3)



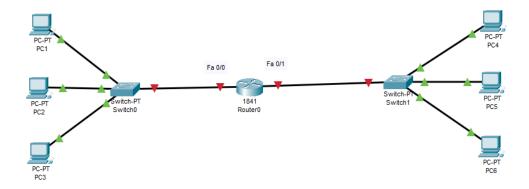
#### 3. Click auto capture button to play it.



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Note: Carefully observe the functional difference between Switch and Hub. Hub sends all the packets it receives to all the PCs while Switch is transferring the packets only to the intended destination

## Lab1\_Sheet2



1. Rename the network devices as follows:

Router 0 -> SLIIT

Switch 0 -> IT

Switch1 -> CSN

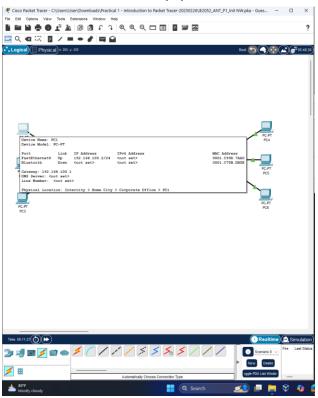
2. Assign the IP addresses to the PCs and interfaces as follows:

	I ==	10	15000	
Device	IP Address	Subnet Mask	Default Gateway	
PC1	192.168.100.2	255.255.255.0		
PC2	192.168.100.3	255.255.255.0	192.168.100.1	
PC3	192.168.100.4	255.255.255.0		
PC4	192.168.200.2	255.255.255.0	192.168.200.1	
PC5	192.168.200.3	255.255.255.0		
PC6	192.168.200.4	255.255.255.0		
Router0 Fa0/0	192.168.100.1	255.255.255.0	N/A	
Router0 Fa0/1	192.168.200.1	255.255.255.0	N/A	

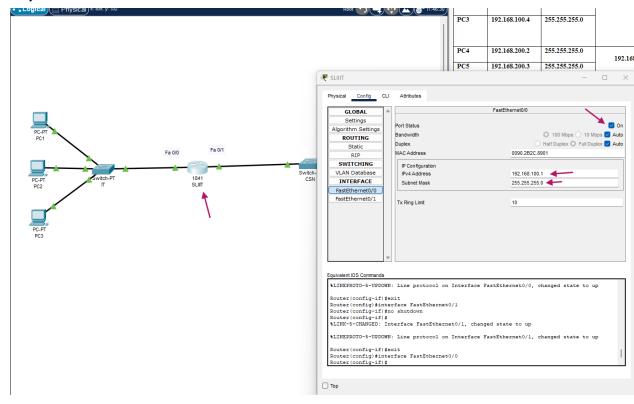
3. Use the ping command to check the connectivity

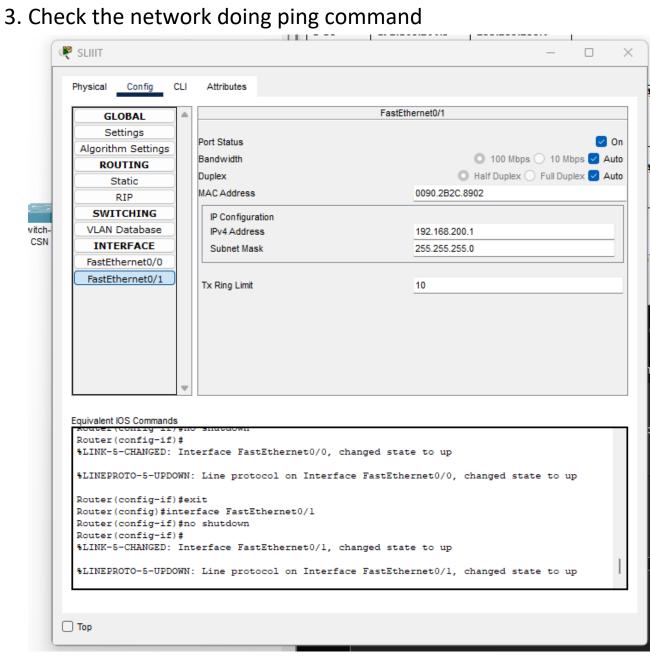
## Steps

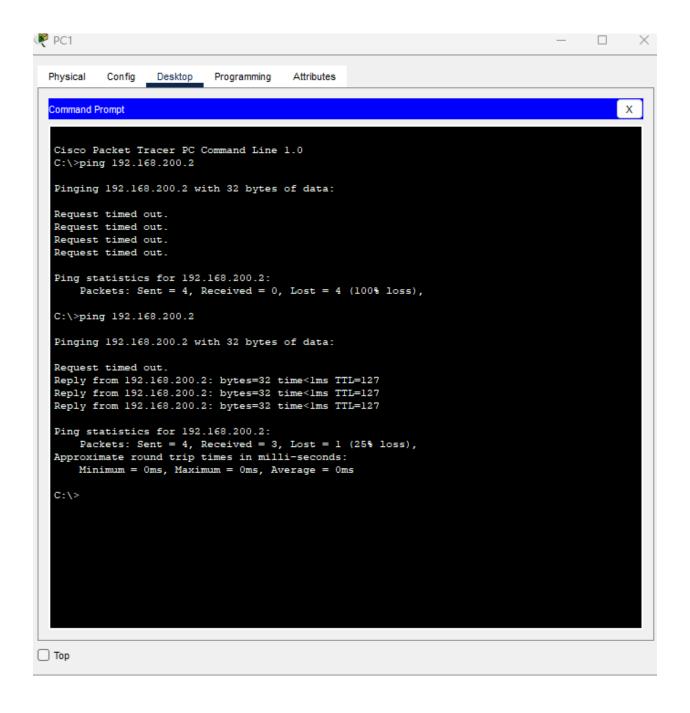
1. Set ip address, default gateway , subnet mask for each and every pc



2. Set default gateway address to router for f0/0 and f0/1 and makesure to add tick on the checkbox.







Note: we need default gate way to communicate with a device which in a another network.. to communicate with a device which is in same network, we don't need default gateway.