Name: Neeraj Varma

Roll.No.: 08

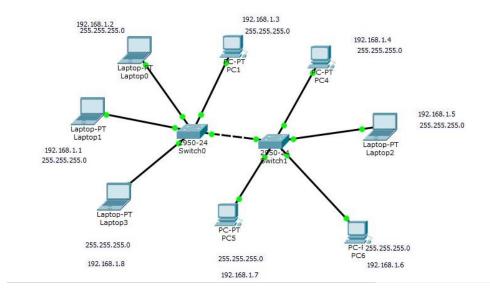
Batch: A1

PRN:1032210651

## **Computer Networks**

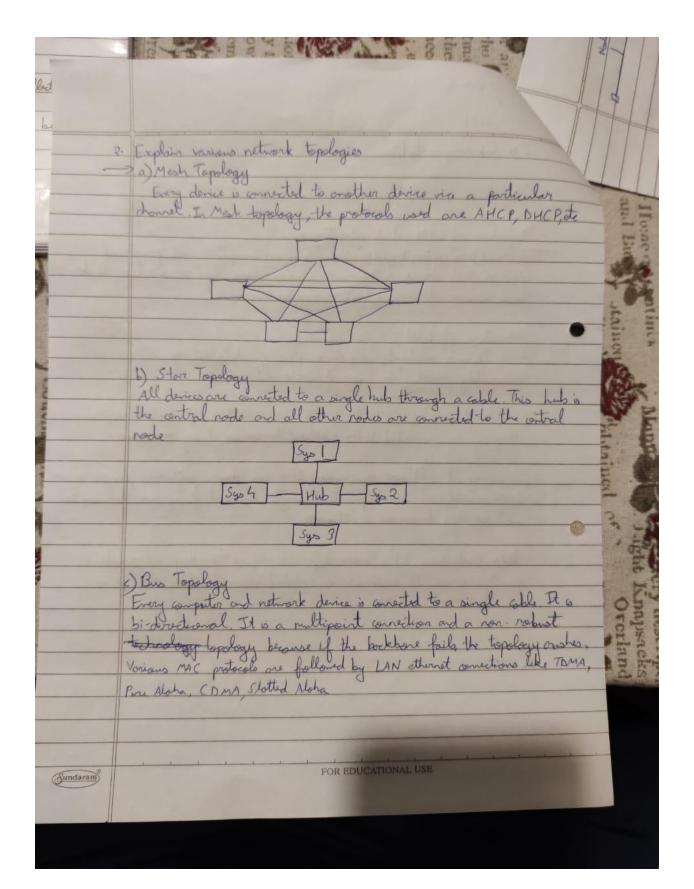
## Creating a Virtual connection on Cisco Packet Tracer Student

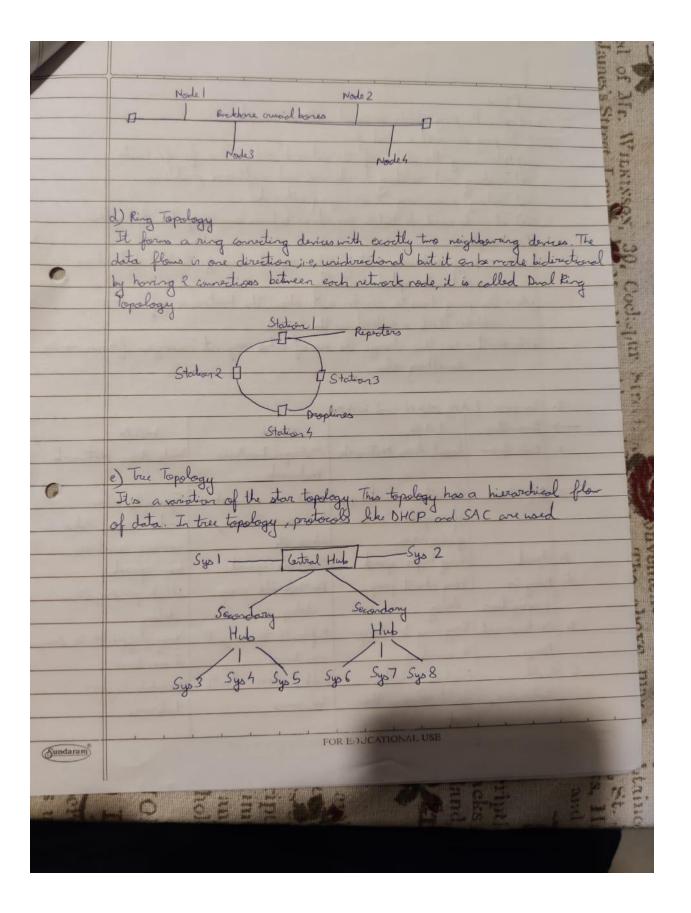
- 1. Select 'End Devices' from the bottom left of the screen
- 2. Select 'Switches'
- 3. Place the machines around the switches to make a network
- 4. Use 'Copper straight line through' to connect a machine and switch and 'Copper-cross over' to connect the switches
- 5. Assign IP addresses to all devices
- 6. Go to command prompt and give the two commands 'ipconfig' and 'ping ip address' 7. Name all the devices with their IP addresses and subnet mask



## Writeup

Neeraj Varma PAOS olitained of Mr. WILKINSON, 1032210651 CN lab Assignment 1 Theory: Definition of LAN and its advantages lava retwork (LAN) is a group of computers and derives that share a common commissations line or viruless server within a distaint geographical was 0 Advantages of LAN: · Simple and relatively inexpensive: It is quick to set reasonably priced when compared to other alternatives · Collaboration of resources: The group as a connected to the LAN and be accessed by energone You can incorporate a single licensed sprogram that used by any device on a network · Data Protection: It is more sofe and on the server. It is easier to update/ climinate data present on one surver FOR EDUCATIONAL USE Sundaram





			d. Ma was and	Fronds			
	FAQ's						
		ping utility commend	+1 - 0				
	> The ping	ping utility command command is used for:	with an Brangle				
	i) Determining the status of the network al						
	11) Trockin	i) Determining the status of the network and various foreign hosts  ii) tracking and isolating hardware and software problem.  iii) Testing, measuring, & managing retworks  iv) It as he used to test a formetives between one computer & another  For comple:					
	Testing, measuring & ranging retworks						
I I as he used to test a formetiver between one computer & another							
lor comple:							
./t - ping continues sending Echo request message to the destination with interrupted mornally							
·/a - the size to the to a land of the size to the siz							
	. /a - the ping tries to resolve and show the hostrome of an IP						
	. In court - use this change the no of Echo regreat messages from 4 to						
		something else	a squeet y	readiges from 7 to			
		0	4	1			
R. Compare LAN, MAN and WAN							
	> Parameter	LAN	MAN	WAN			
1-	Full form	Local Area Network	Metropolitan Ava	Wiele Area Network			
2	Definition	Cornects a small grap	Wide ones network	5- +			
	The same	of computers in a	that cours towns	Spens to even			
		given area	cities, etc	various countries			
3.	Speed	Very high speed	Moderate speed	law speed			
4.	Delay in	Very short prop.	Moderate prop	High wasponsting			
	propogation	delay	delay	delay Very difficult to design			
5.	Mitarenced	Very easy to design	Difficult to design &	Very difficult to design &			
	Design	& maintain	maintain	& moistain 50			
6.	Fault	Exhibits a better	Exhit lesser fault	Echibits higher			
	tolerance	foult tolerance than	tolerance	tolerance			
		rest					
Sundaram)		FO	R EDUCATIONAL USE				
				8			
				TANK ES			
				2 8.			

7. Gong 8. Notes	tor Owner It is private	Higher congestion  Can be public or private	Higher congestion  Con be public or private  Contries, sub-continents or on equivalent area
			· · · · · · · · · · · · · · · · · · ·
			- S
		10	100
		FOR EDUCATIONAL USE	