LABORATORY PROGRAM – 1

Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.

	Date 9,10,24	
1	Routers	
	Pre explaination	
	-> Generic Router: 2TPis	
	- Place PC's - Different 1P's networkids	
	- Manual Route Config	
	Land a let have been to be to be the state of the state o	
	Commands	
	Snable	
1	#config terminal	
1	interface fast ethernet 0/0: 110	The state of the s
+	ip address 10.0.0.1 255.0.0.0	
	no shutdown	
1	exit	
	Aim: To Configure IP address to routers in	_,
	market tracer To demonstrate and	
	Connecting devices of two different network	23
	Prohouve:	
	and Touter Contigue	
	mention/define gateway 10.0.0.1 and 20.0.0.	-
1	mention/define gateway 10.0.0.1 and 20.00000000000000000000000000000000000	THE PERSON NAMED IN
	(2) Connect	
	cross over - CLI - Manual Configuration	07_
	click on Route	
	Commande:- Router > enable	
	Router & Config terminal	
	Router de Config terminal Router (config) of interface fastethemet 0/0 Router (config) of interface fastethemet 0/0	
	Ronter (config-if) # ip address 10.0.0.1 Ronter (config-if) # ip address 10.0.0.0	
	Router (config-it) # ip address 255.0.0.0	3/12/13
	the East Control of the Control of t	100

Ping Statistics for 20.0.0.10;

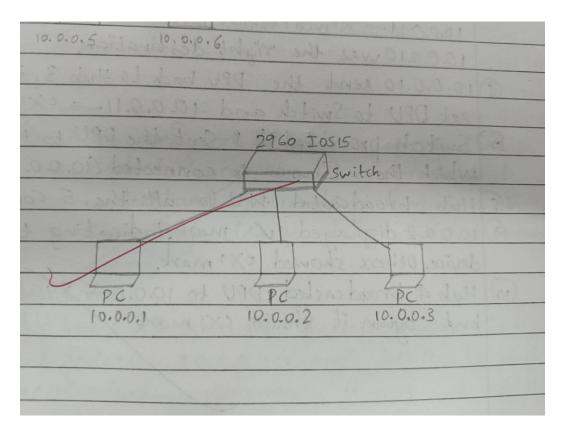
Packets: Sent: 4. Recieved = 4; Lost = 0 (% loss)

Approximum = 4ms, Maximum = 4ms, Average =

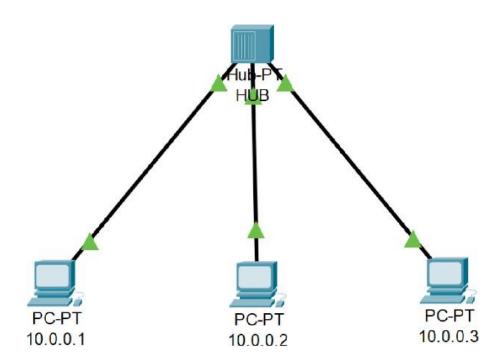
Tins.

C 10.0.0.0/8 is directly connected, fastethemet 1/0

C 20.0.0.0/8 is directly connected, fastethemet 1/0



Screenshot:





Physical Config Desktop Programming Attributes

Command Prompt

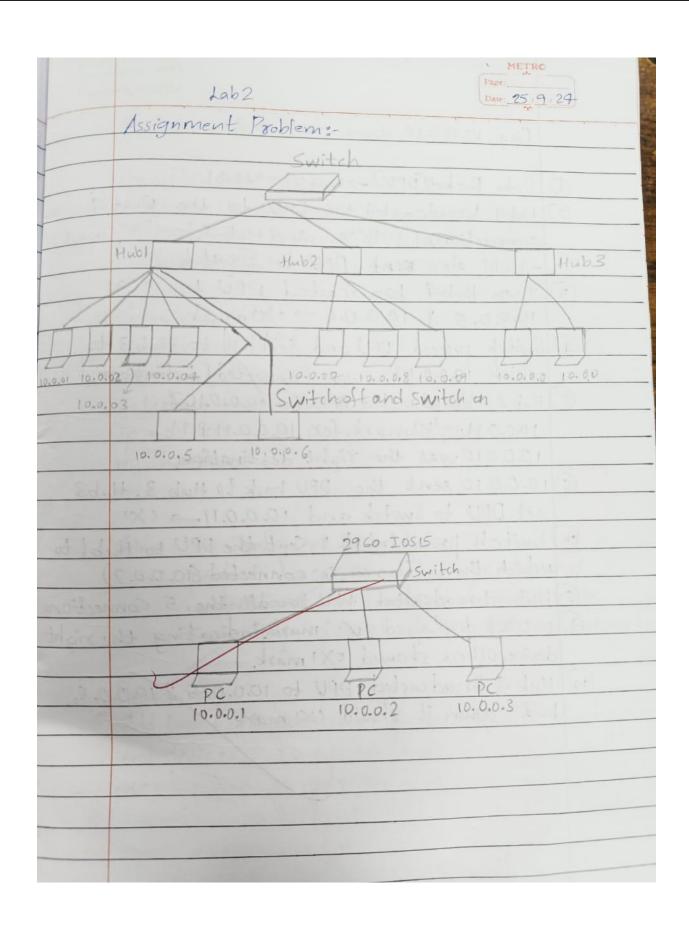
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=20ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Reply from 10.0.0.3: bytes=32 time<1ms TTL=128
Ping statistics for 10.0.0.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

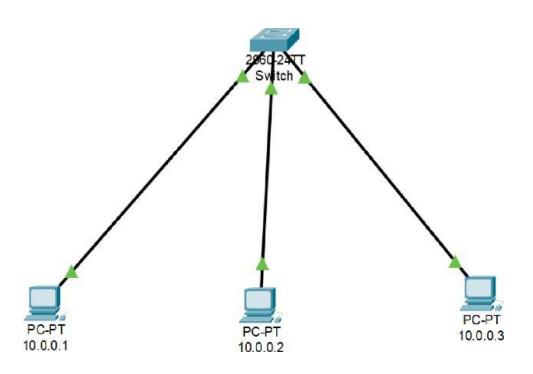
Minimum = 0ms, Maximum = 20ms, Average = 5ms
```



Page: Date:	
Ping 10.0.0.10 from 10.0.0.2	
1 Data Packet(DPV) ->10002 ->1111	
2) Hub1 broadcasted the DDI La 11	
connections [3 PC28 and Hub4] - 1 x1 mail	
- 3) Then Huba broadcasted PPV to PCZ	1514
4) Switch proceed DPU and Sent it to Hub3 to	
Which 10.0.0.10 was connected [destination] (5) Hub 3 broadcasted DPU to 10.0.0.10 &	
10.0.0.11→ "x1 mark for 10.0.0.112	
10.0.0.10 was the right destination	
8et DPU to Switch and 10.0.0.11 => (X)	
Which the Source is connected (10.0.0.2)	
8 Hub broadcasted DPU to all the 5 Connections	
10.0.0.2 displayed v mark, indicating the right	
device, Others showed eximark,	
(10) Hub 4 broad casted DPV to 10.0.0.5 \$ 10.0.0.6,	
but again it should eximark	
	Nelve

	Date 9 10:24	
1	Routers	
	Pre explaination	
	-> Generic Router: 2TPis	
	- Place PC1x - Different 1P18 network ide	
	- Manual Router Config	
	Land and the second of the sec	
	Commands	
	Enable	
1	# consig terminal	
1	interface fast ethernet 0/0: 10	
	ip address 10.0.0.1 255.0.0.0	
	no shutdown	
	exit	
	Aim: To Configure IP address to routers in	
	market tracer To demonstrate and	
	1 #1 still water a - must sto in	
	Connecting devices of two different networks	
-		
	Proxime:-	
	all to Digg and sme deneric router confirme	
	end devices: 10.0.0.10 and 20.0.0.10 and	
	reention/define gateway 10.0.0.1 and 20.0.0.	
1	end devices: 10.0.0.10 and 20.0.0.1 and 20.0.0.1 mention/define gateway 10.0.0.1 and 20.0.0.1 © Connect the PCPS to the router via Copper	PINE.
	Cross over Manual Configuration	
	cross over outer - CLI - Manual Configuration	
	Commande:	
	O 12 Senable	
	Router of Config terminal	
	Douter (config) of interface fastelliemer	THE REAL PROPERTY.
	Router of Config terminal Router (config) of interface fastethemet old Router (config-if) H ip address 10.0.0.1 Router (config-if) H ip address 10.0.0.0	
	755.0.00	
		1000

Router(config-if) # noshutdown Router(config-if) #exit Router(config-if) #exit	-
Router(contig -it) # exit	Pin
Repeat for other PC: fastethernet 1/0 Repeat for other PC: fastethernet 1/0	
Repeat for other to figuration, the connection	-
	1
(a) click on PC 10.0.0.10 - Pesktop - Canadprompt	
Send data packet to	- (
other device from the other networks.	
Topology=	
10.0.0.1 20.0.0.1	
fa0/pr Routes fa1/0	
/ Fa0 \ fa0	
b land and a second and a second a seco	
PC-PT PC-PT	
10.0.0.10	
Def gateway 10.0.0.1 Kefgateway 20.0.0.1	
Observations;	
Data packet was Sent from 10.0,0,10 to router	<u> </u>
The souter Sent the packet to PC 20,0.0.10	
. 3 Data packet bash to router -> back to PC	1332
10.0.0.10 and a tick mark is blinked	
richerate of houself the free will be the	
Reply Soom 20.0.0.10: bytes=32 time=4m8	
TT1212+	
IP route was observed as.	TI SI
Router # show ip route	
14 most really to the second of any	
0.01 330 K	





Physical Config Desktop Programming Attributes Command Prompt Cisco Packet Tracer PC Command Line 1.0 C:\>ping 10.0.0.3 Pinging 10.0.0.3 with 32 bytes of data: Reply from 10.0.0.3: bytes=32 time<1ms TTL=128 Ping statistics for 10.0.0.3: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms