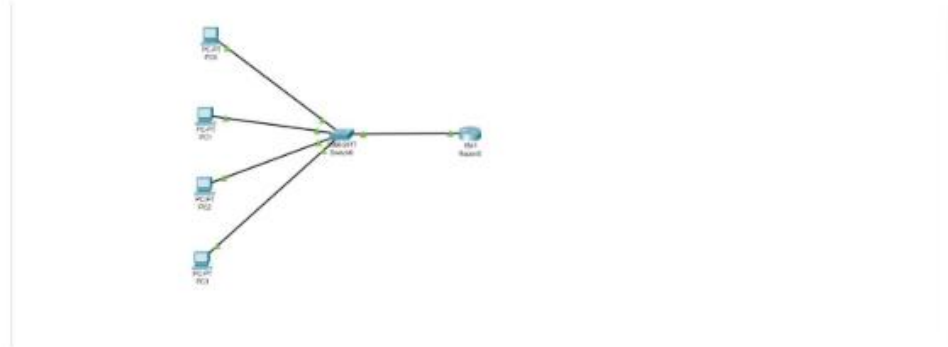# CSC 329 Project Report

Abdulaziz Alhajri – 441102528

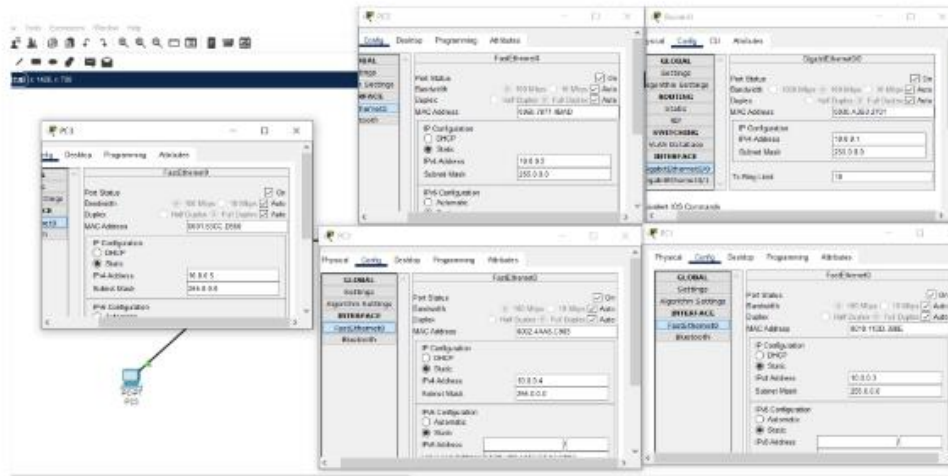**Abdulaziz Al saud – 441106664**

Step 1:

We create a local network composed of one router, one switcher, and 4 computers.

Step 2:

We Assign IP addresses to the different components of the network using the class A.

Class A has a range form 0 to 127 it will provide us a large number of unique IP addresses.

Step 3:

We Verify the connectivity between the different computers and the router using the CMD command ping with the following steps:

1- Open the Command Prompt on each computer.
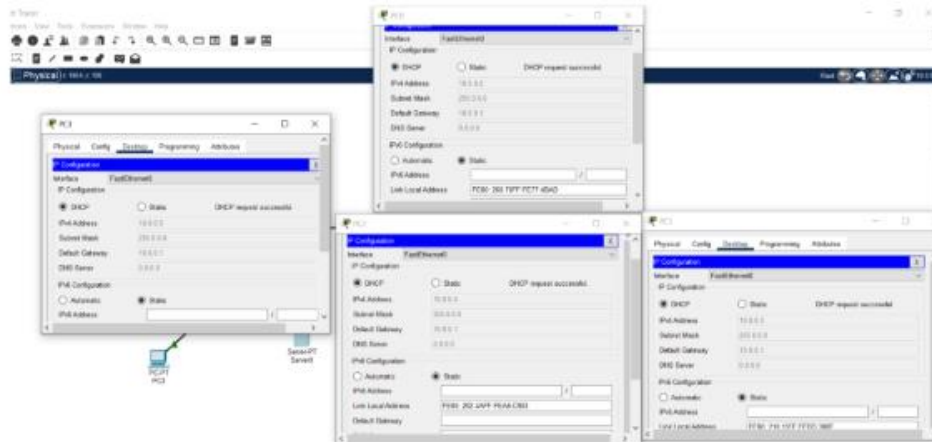2- Using command 'ping' with the IP address of the router. EX ping 10.0.0.
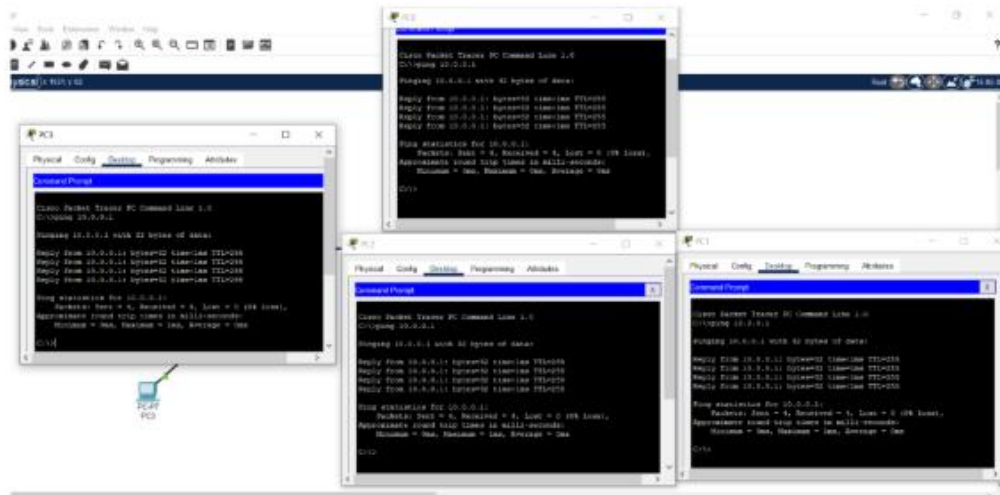
Step 4:

We Added a DHCP server to the network and connected to the switcher.
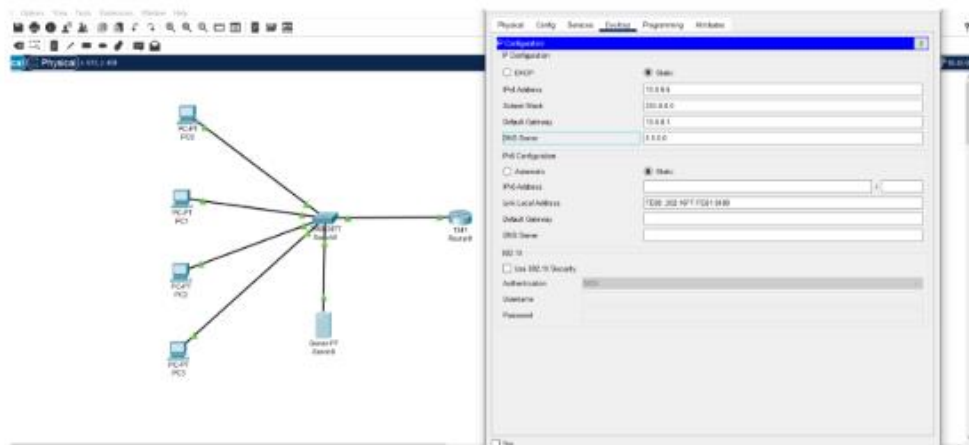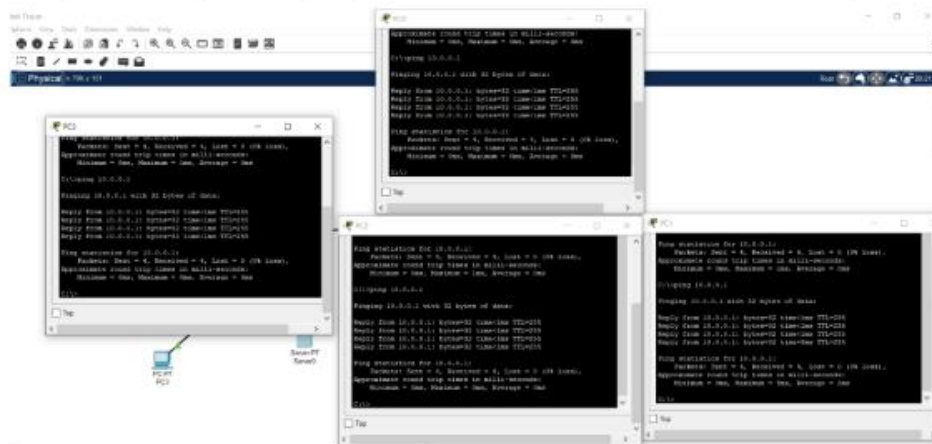
Step 5:

We Configured the server to assign dynamic IP addresses using the DHCP server as the following.


Step 6:

We repeated the step 3 after assigning dynamic IP addresses using the DHCP server to the computers.

**Finally we tested to send a messages and it successfully received from different computers.**

1-from PC0 to the other PCS.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	Successful	PC0	PC2	ICMP		0.000	N	0	(edit)		(delete)
	Successful	PC0	PC1	ICMP		0.000	N	1	(edit)		(delete)
	Successful	PC0	PC3	ICMP		0.000	N	2	(edit)		(delete)
	Successful	PC0	PC0	ICMP		0.000	N	3	(edit)		(delete)

2-from PC1 to the other PCS.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	Successful	PC1	PC0	ICMP		0.000	N	0	(edit)		(delete)
	Successful	PC1	PC1	ICMP		0.000	N	1	(edit)		(delete)
	Successful	PC1	PC2	ICMP		0.000	N	2	(edit)		(delete)
	Successful	PC1	PC3	ICMP		0.000	N	3	(edit)		(delete)

3-from PC2 to the other PCS.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	Successful	PC2	PC0	ICMP		0.000	N	0	(edit)		(delete)
	Successful	PC2	PC1	ICMP		0.000	N	1	(edit)		(delete)
	Successful	PC2	PC2	ICMP		0.000	N	2	(edit)		(delete)
	Successful	PC2	PC3	ICMP		0.000	N	3	(edit)		(delete)

4-from PC3 to the other PCS.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	Successful	PC3	PC0	ICMP		0.000	N	0	(edit)		(delete)
	Successful	PC3	PC1	ICMP		0.000	N	1	(edit)		(delete)
	Successful	PC3	PC2	ICMP		0.000	N	2	(edit)		(delete)
	Successful	PC3	PC3	ICMP		0.000	N	3	(edit)		(delete)