

AIM:

(b) configuration of wireless LAN using CISCO
Packet tracer.

Design a topology with three PCs connected from
Linksys wireless routers.

Perform following configuration:

- * configure static IP on PC wireless router
- * set SSID to Mother Network.
- * set IP Address of router to 192.168.0.1, PC0 to 192.168.0.2 PC1 to 192.168.0.3 and PC2 to 192.168.0.4
- * Secure your network by configuring WAP key on Router.

- * Connect PC by using WAP key

To complete these tasks follow these steps by step instructions:-

Step 1: click on wireless router.

- * Select Administration tab from top the set user name and password to admin and click on Save setting.

- * Next click on wireless tab and set default SSID to mother network.

- * Now select wireless security and change security mode to WEP.

- * Set Key 1 to 0123456789

- * Again go in the end of page and click on Save setting.

- * Now we have completed all given task on wireless router. Now configure the static IP on all three PCs.

* Double click on pc select Desktop tab click on (3)

IP configuration select static IP and set IP as given below. 257

PC - IP subnet Mask Default Gateway.

PC0 192.168.0.2 255.255.255.0 192.168.0.1

PC1 192.168.0.3 255.255.255.0 192.168.0.1

PC2 192.168.0.4 255.255.255.0 192.168.0.1

* Now its time to connect pc's from wireless router.

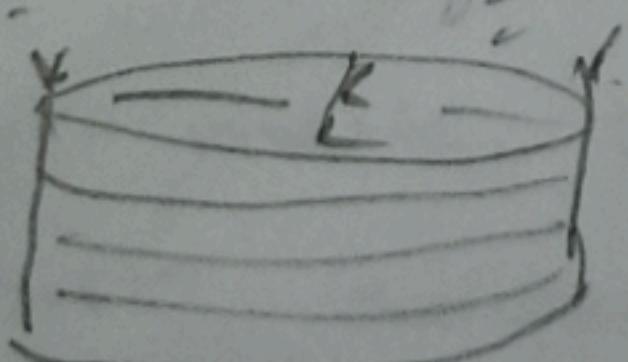
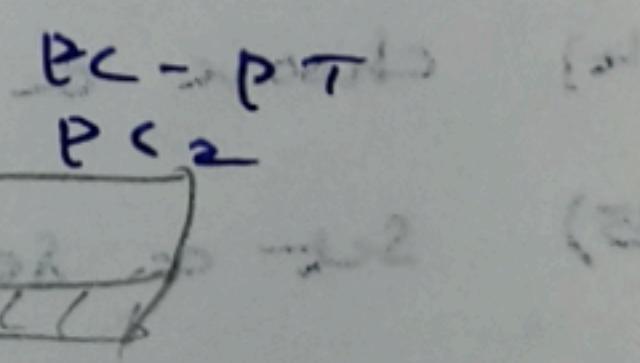
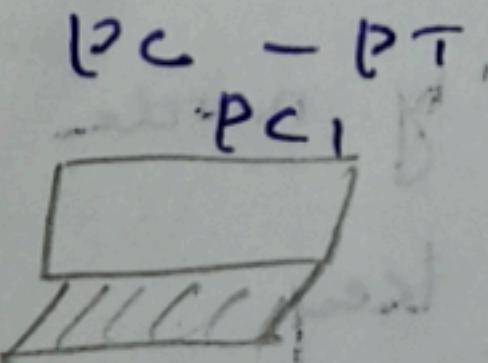
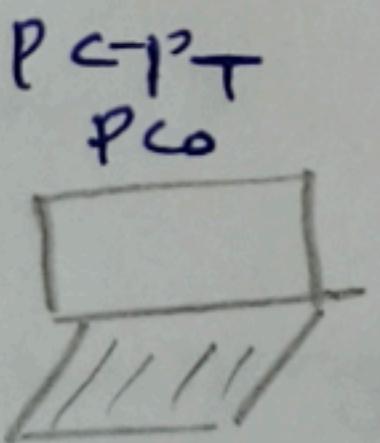
To do so click pc Select Desktop click on pc wireless.

* click on connect tab and click on refresh button.

As you can see in image that wireless device is accessing. Mother network on Ctl6 and signal strength is 100%. In left side you can see that WEP security is configured in network. Click on connect button to connect other network.

* It will ask for WEP key insert 0123456789 and click connect. It will connect you with wireless router. As you can see in image below that system is connected. And PC1 card is active

* Repeat same process on PC2 and PC3



Linksys - WRT 300N

wireless router -

Pc	IP	Subnet mask	Default gateway
PC0	192.168.0.2	255.255.255.0	192.168.0.1
PC1	192.168.0.3	255.255.255.0	192.168.0.1
PC2	192.168.0.4	255.255.255.0	192.168.0.1

Student observation.

a) what is SSID of a wireless Router?

Ans: (SSID (Service set Identifier)) is the name of a wireless network that helps device identify and connect to a specific wifi network.

b) What is a security key in wireless router?

Ans: A security key is used to protect the wireless network and ensure only authorized users can connect.

c) Configuring a simple wireless LAN

- Ans:
- 1) Connect the access point to the network and power it on.
 - 2) Log in to the router's admin page.
 - 3) Set the SSID.
 - 4) Choose a security mode.
 - 5) Set a security key.
 - 6) Save and reboot the access point.
 - 7) Connect devices using the SSID and password.

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Result:

thus we have configured wireless LAN

using Cisco packet tracer.

AIM: Implementation of subnet掩码
TRACER:
Step1: creation of subnet掩码
→ T
subnetting:
Packet:
→ T
Select:
" Network
network
mask
Step2:
→ w
adding:
→ and
connection
one
Step3:
→ to
Sub