Ex: 86

Date: 13/9/24

Wireless LAN

Aim:

To configure wireless LAN using cisco Packet tracer.

Procedure:

1. Create network 3 PCs & a wireless Router

2. Rightclick on the wireless router Note the IP adress. It would be :

    192.168.0.1

    → Disable the DHCP server
    → Save settings

3. Click on wireless on the same page :

    → Change Network name to "

        "My Home Network

    → Save setting

    → click on wireless security under wireless & chang security mode to WEP from disabled

        → Add key 1 : 0123456789

        → Save settings

    → then close the window

4, Now allign IP to the PCs

PC0 = 192.168.0.5

→ gateway - 192.168.0.1

PC1 - 192.168.0:6

gateway - 192.168.0.1

PC2 - 192.168.0.7

gateway - 192.168.0.1

5, Now click on PC0

→ Click Phylical option

→ Turn off that

→ Drag the Part in the dragram

→ To the left menle

→ Drag the 'WMP300N' to the Part from
the left

→ Turn on that

→ Now click on desktop ⟹ PC wirdelr

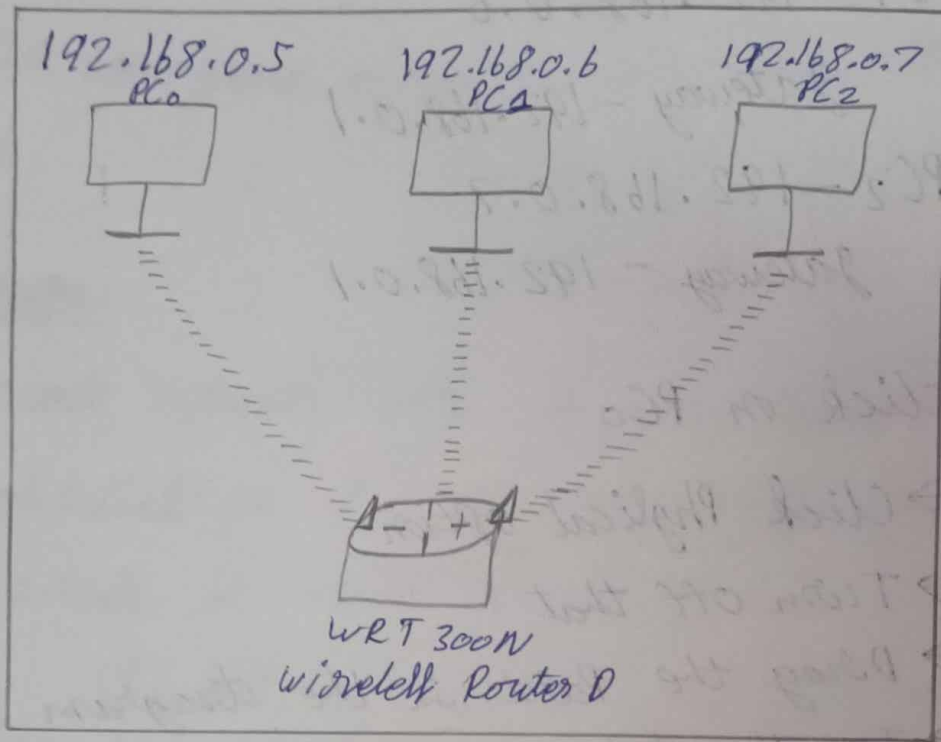→ Click connect → site Information ⟹ connect

→ Type '0123456789' in the WEP key1

→ Connect

6, Repcat step 5 for the PC1 & PC2

then you can see the below connection
in the network

Diagramatic representation

192.168.0.5
PC0

192.168.0.6
PC1

192.168.0.7
PC2

WRT300N
wireless Router 0

output:

thus the Packets could be transmitted
via wireless router

fire	last status	sovrce	destination	ttype	ctoon	time	Pellod	Num
●	Succelful	PC0	PC2	ICMP	☐	0.000	N	0
●	succelful	PC1	PC0	ICMP	☐	0.566	N	1

Simulation Panel

Event List

Vis	Time (sec)	Last Device
	0.000	--
	0.001	PC0
	0.003	--
	0.004	wireless router 0
	0.004	wireless router 0
	0.004	wireless router 0
	0.005	--
	0.006	PC2
	0.008	--
	0.009	wireless router 0
	0.009	wireless router 0
	0.009	wireless router 0
visible	0.012	--

Students observation

a/ what is SSID oh wireless Router ?

Ans: service set Identifier is the name assigned
to a wireless network, allowing devices to Identify
and connect to the correct wifi. the SSID is
broad cast by the router and helps destinguish
one network from others in the Same area

b/ what is security key In wireless router

Ans: A Security key is a pallword or code used to
protect a wireless network, ensuring only authorised
users can connect, common types are WEP, WPA etc.

Result:
that wireless Lan has been cosigueed
successfully using cisco pachet tracion.