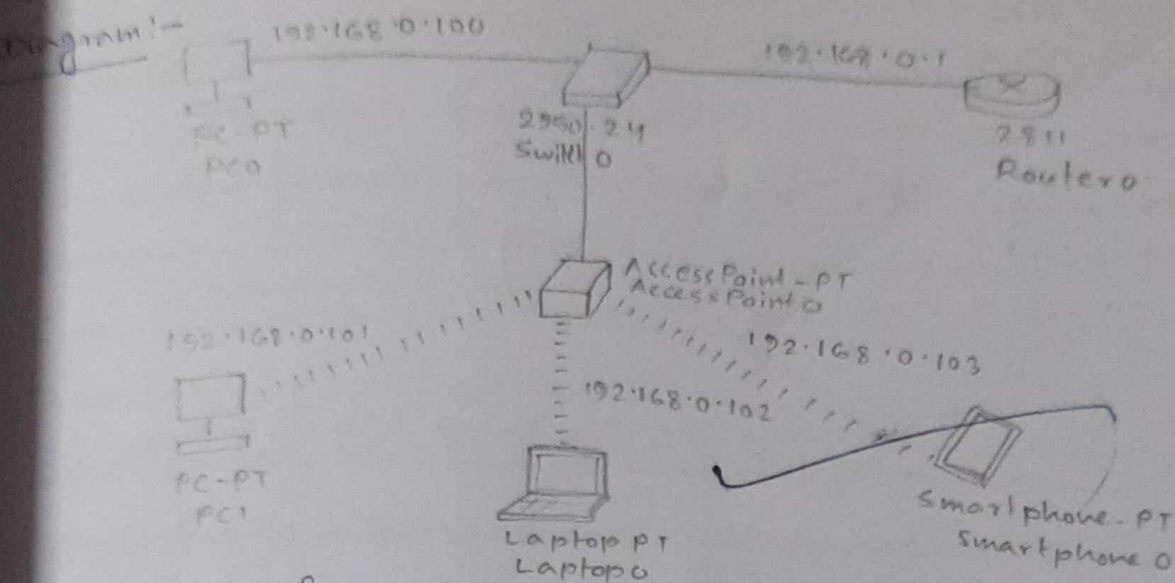


Problem Statement:- Create wire and wireless network using CISCO Packet Tracer and show the connectivity.



Steps to configure wire and wireless network:-

A virtual network topology according to the diagram is created. It contains a router, switch, Access point and laptop, PC, Smartphone as endpoints of the network.

PC0, Switch0, Router0 and AccessPoint0 are connected with the required cable (wire connection).

> Configure IP address on router interface, PC, Laptop etc.

Router0 configuration:-

```
en
conf t
ip add 192.168.0.1 255.255.255.0
no shut
wr
exit
exit
```

Now the PC0 (wire connected) is configured.

PC0 configuration:-

IP add 192.168.0.100, Subnet Mask 255.255.255.0, Default gateway - 192.168.0.1

> Now the wireless connection is configured PC1, Laptop0, Smartphone0 and accesspoint0.

> Configure PC1 with a wireless module - Linksys-WMP300N. Now it contains wireless connection with accesspoint.

> Now the access point is configured on port 1:

- Turn on WEP and WEP: 0123456789

- SSID: SPC

> Configure IP address on PC1.

PC1 configuration:-

IP add 192.168.0.101 subnet mask 255.255.255.0, Default gateway 192.168.0.1

viii> Now open the PC wireless window and connect the wireless and give the password 0123456789 and connected.

ix> Similarly configure the laptop with a wireless module Link sys - WPC300N.

x> Configure IP address on Laptop 0.

Laptop 0 configuration:

IP add 192.168.0.102, subnet mask 255.255.255.0. Default gateway 192.168.0.1

xi> Similarly it is connected to the wireless network with pass

xii> Now the smartphone is configured.

Smartphone 0 configuration:-

IP add 192.168.0.103, subnet mask 255.255.255.0. Default gateway 192.168.0.1

xiii> Turn on WEP for the smartphone and WEP key: 0123456789 and SSIP: spc

xiv> The packet is sent from PC1 to PC0, Laptop0 to PC0 and PC0 to Smartphone0 respectively to show the connectivity.

Output:- The wire and wireless connection is created and the packet is sent from PC1 to PC0, Laptop0 to PC0 etc.

Remarks:- The wire and wireless connection is successfully created and the connectivity is shown by sending packets.