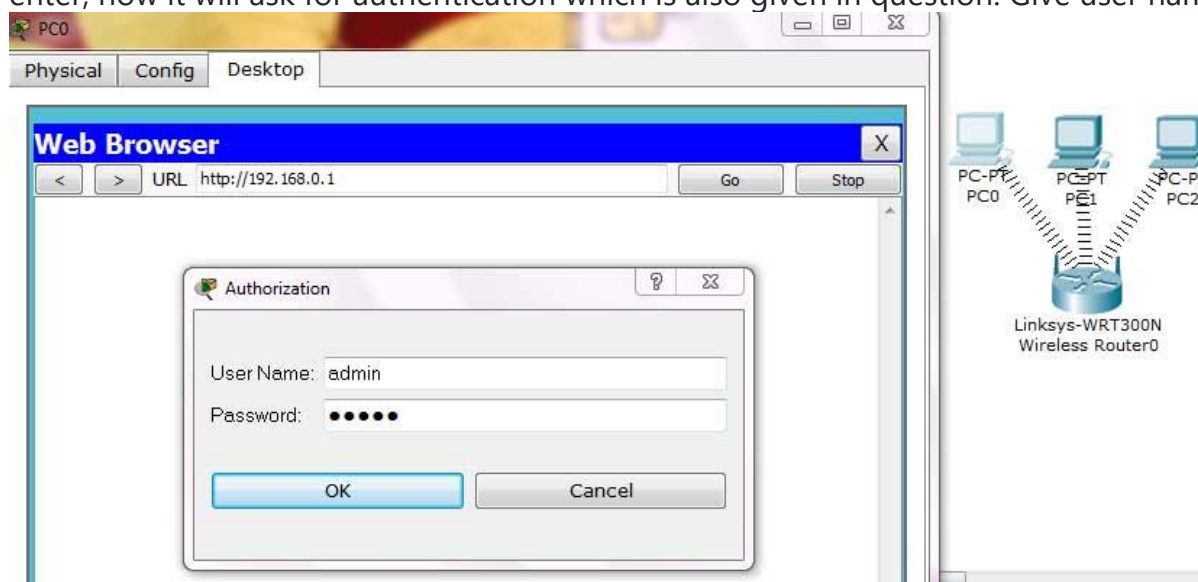**Aim :** Install and Configure Wireless LAN using Wi-fi and configure hotspot.
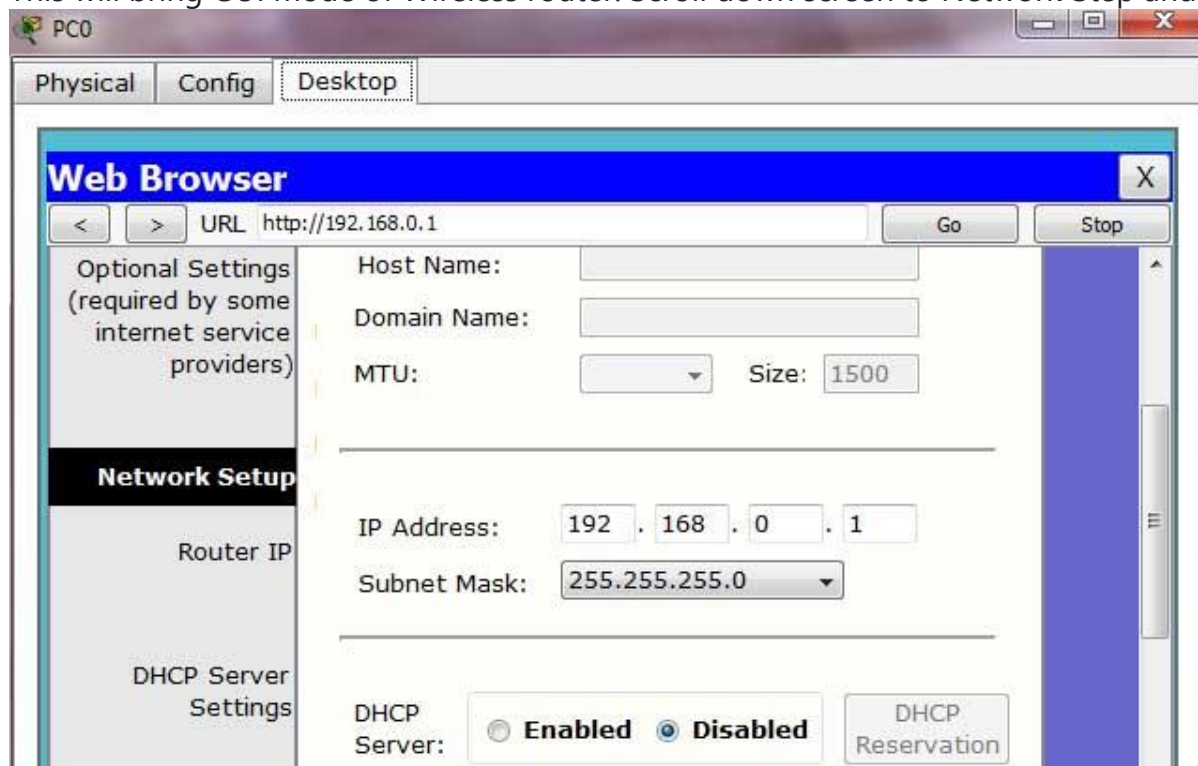
Requirement : Cisco packet tracer,pc ,switches,network topology

Theory and steps :

1. Configure Static IP on PC and Wireless Router
2. Change SSID to MotherNetwork
3. Change IP address of router to 10.0.0.1 and 10.0.0.2 of PC0 10.0.0.3 of PC1 10.0.0.4 of PC2
4. Secure your network by configuring WAP key on Router
5. Connect PC by using WAP key
6. As given in question our network is running on 192.168.0.0 network and all PC's are DHCP clients and functioning properly. So we will first connect to Wireless router to off DHCP.
7. Double click on PC and select Web Browser. As given in question IP of Wireless router is 192.168.0.1 so give it in Web browser and press enter, now it will ask for authentication which is also given in question. Give user name admin and Password to admin
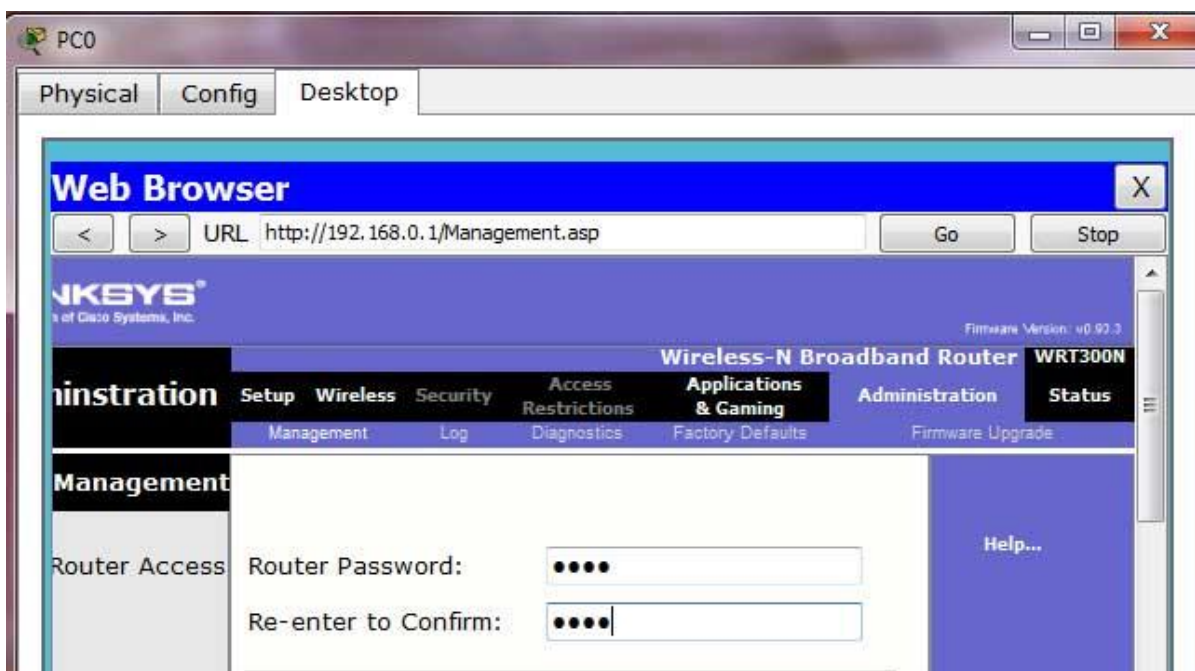
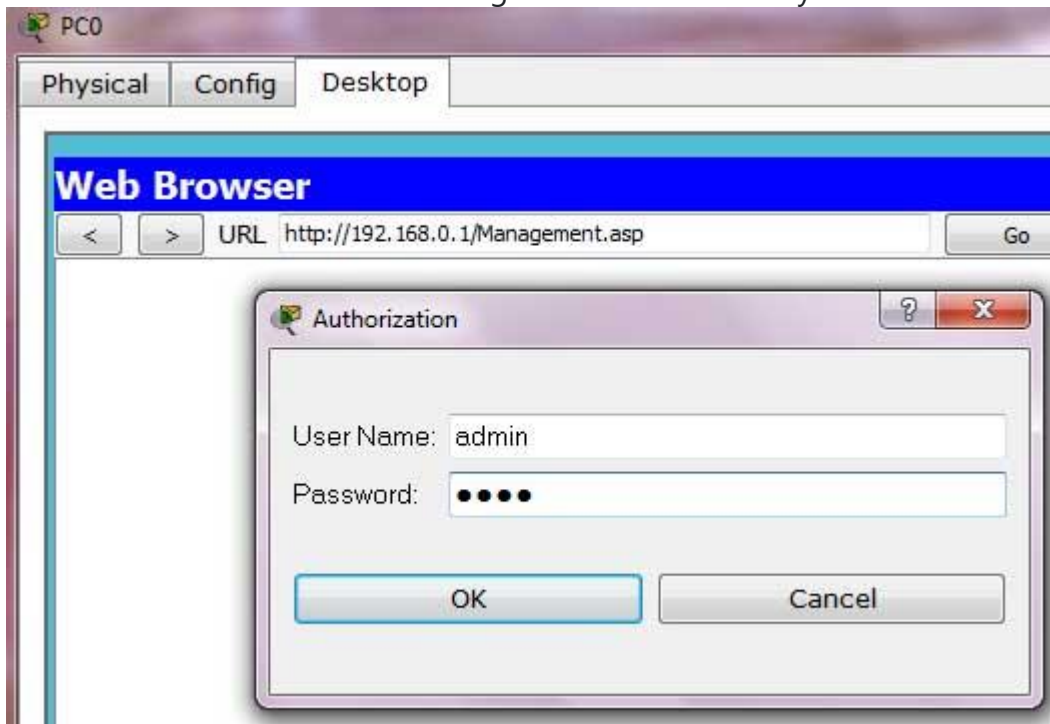8. This will bring GUI mode of Wireless router. Scroll down screen to Network Step and Select Disable DHCP

9. Go in end of page and click on Save setting this will save setting click on continue for further setting
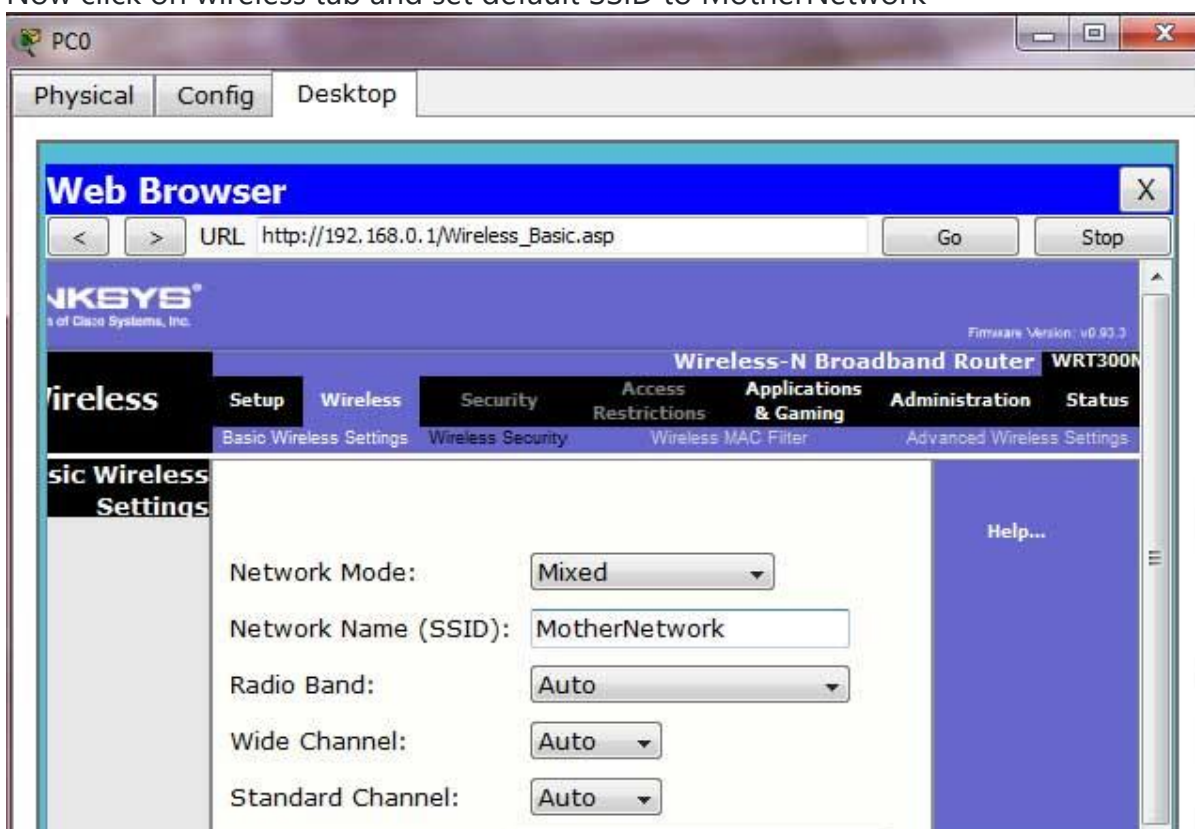
10. Now select Administration from top Manu and change password to test and go in the end of page and Click on Save Setting
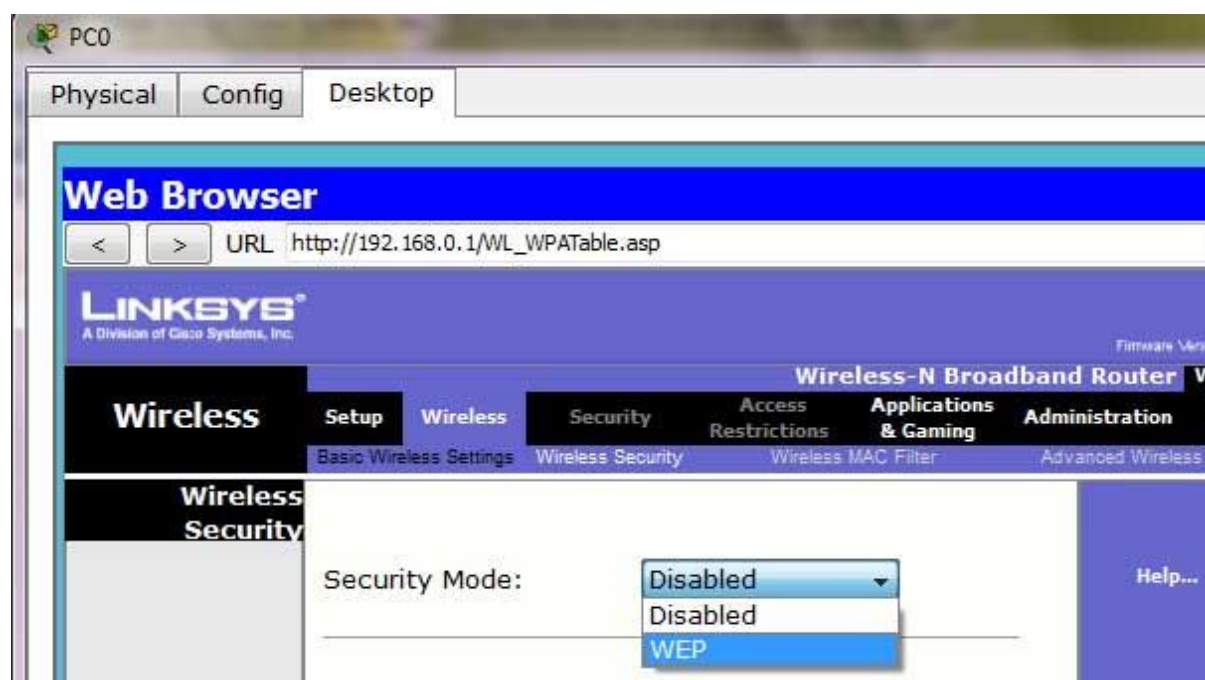
11. Click on continue for further setting. This time it will ask you to authenticate again give new password test this time

12.

13. Now click on wireless tab and set default SSID to MotherNetwork

14. Now Select wireless security and change Security Mode to WEP
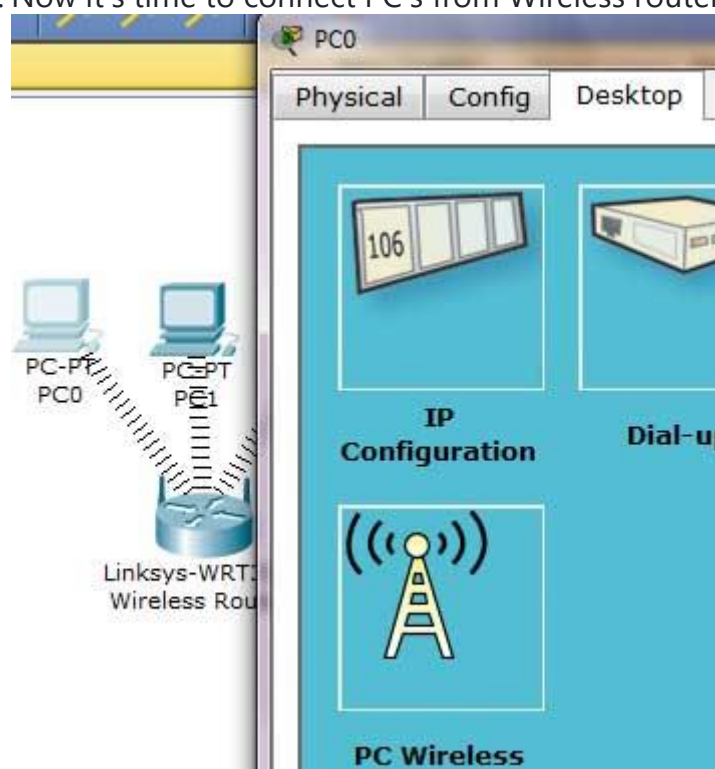
15. Set Key1 to 0123456789

16. Again go in the end of page and Click on Save Setting
17. Now we have completed all given task on Wireless router. Now configure the static IP on all three PC's
18. Double click on pc select Desktop tab click on IP configuration select Static IP and set IP as given below
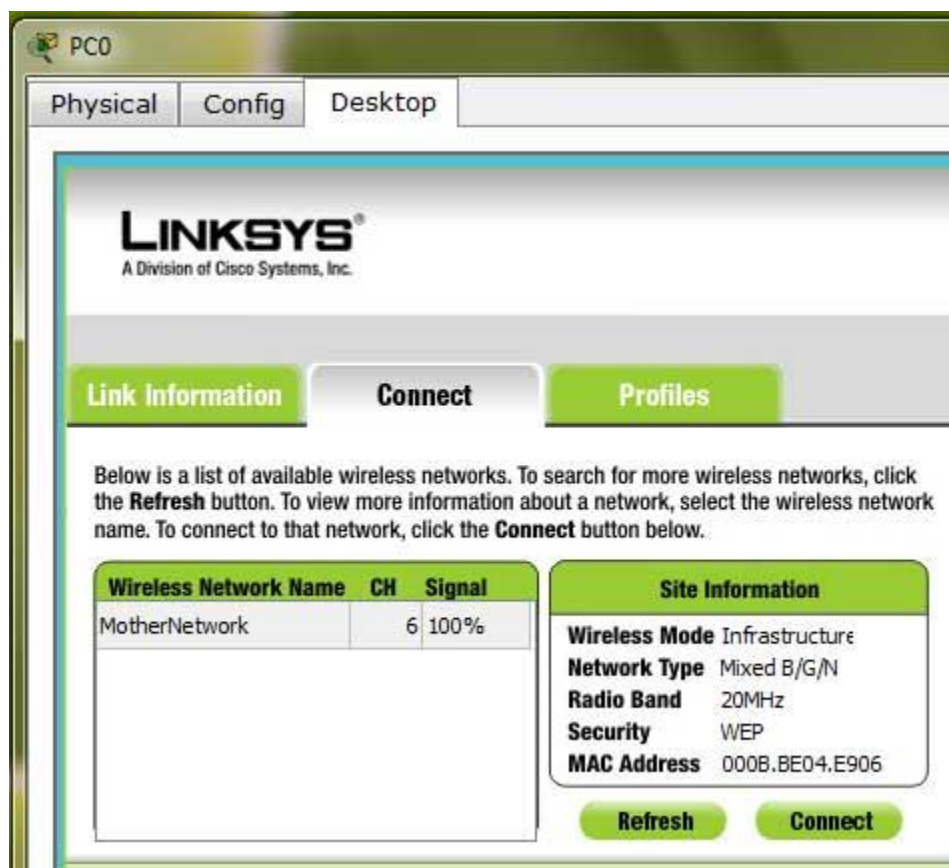
PC	IP	Subnet Mask	Default Gateway
PC0	192.168.0.2	255.255.255.0	192.168.0.1
PC1	192.168.0.3	255.255.255.0	192.168.0.1
PC2	192.168.0.4	255.255.255.0	192.168.0.1

19. Now it's time to connect PC's from Wireless router. To do so click PC select Desktop click on PC Wireless
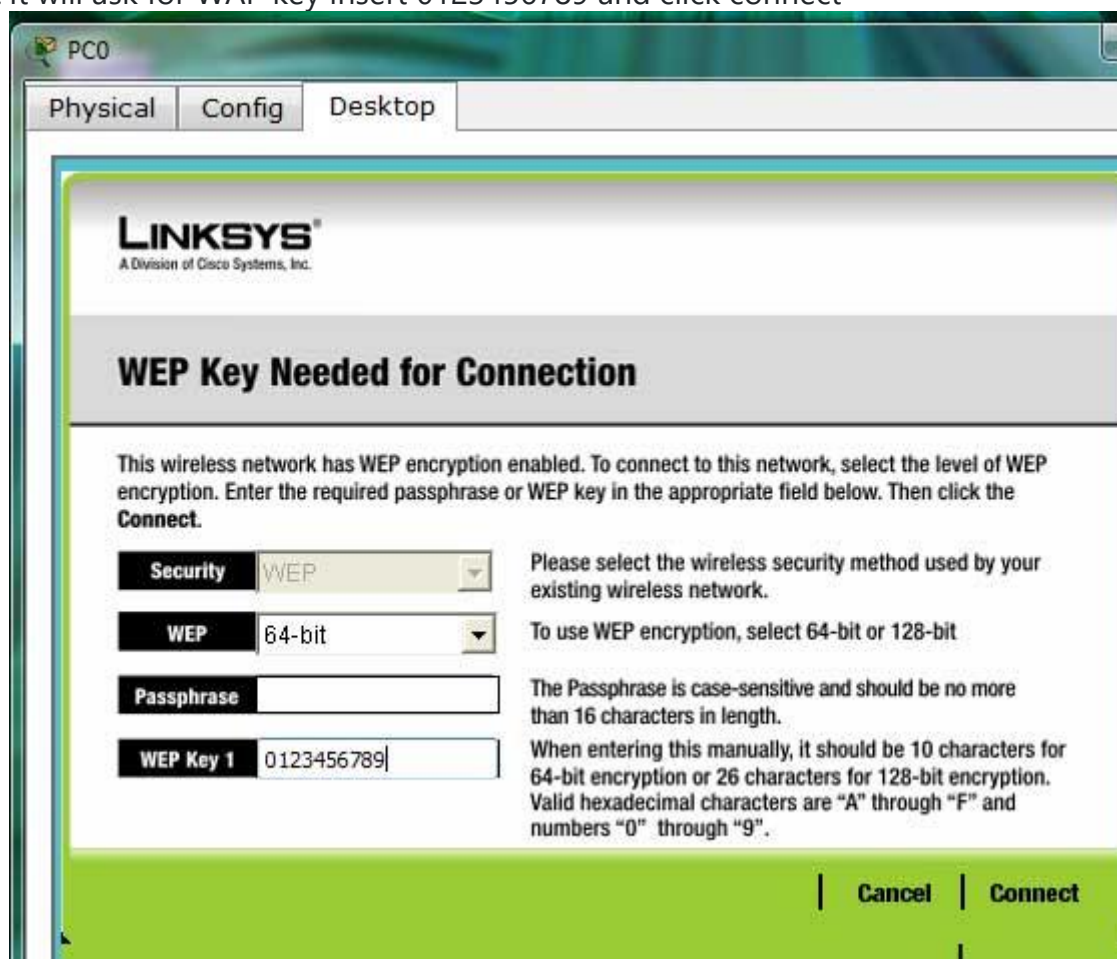

20. Click on connect tab and click on Refresh button

21. As you can see in image that Wireless device is accessing MotherNetwork on CH 6 and signal strength is 100%. In left side you can see that WEP security is configured in network. Click on connect button to connect MotherNetwork
22. It will ask for WAP key insert 0123456789 and click connect

23. It will connect you with wireless router.
24. As you can see in image below that system is connected. And PCI card is active.

25. Repeat same process on PC1 and PC2.

Conclusion : Thus we successfully studied how Install and Configure Wireless LAN using WiFi and configure hotspot.