Practical 10

Aim:

b) Design and configure an internetwork using wireless router, DHCP server and internet cloud.

Procedure:

1. Take:
   ➜ 1PC name it as PC
   ➜ Laptop name it as Laptop
   ➜ Server name it as Cisco.com
   ➜ PT-Cloud name it as Internet
   ➜ Cable Modem
   ➜ WRT 300N wireless router0 name it as wireless router
2. Take a copper straight through cable click the PC ➜Fast ethernet connect to wireless router ➜ ethernet 1, click the router ➜ Internet connect to modem ➜ Port1
3. Click wireless router ➜ GUI check ,
   ➜ IP address: 192.168.0.1
   ➜ Subnet mask: 255.255.255.0
   ➜ DHCP server: Enabled
   ➜ Max. no. of users: 50
   ➜ Static DNS 1: 208.67.220.220 Come down and click save settings.
4. Come up go to wireless change the network name to MyHomeNetwork and save settings.
5. Click laptop ➜ physical turn off the pc drag and drop the module in the left side and from the left side take WPC300N and place it in the module place and turn on the pc.
6. Click desktop ➜ pc wireless ➜ connect myhomenetwork will display at the left side right side click connect option.
7. In the desktop option itself go to the command prompt enter ipconfig /all
8. Click pc ➜ desktop ➜ click DHCP close it again go to desktop click command prompt and enter ipconfig /all
9. Now go to connections section down and select blue colour cable ➜ click cable modem ➜ port 0 connect to Cloud internet ➜ Coaxial 7.
10. Click copper straight through cable ➜ ethernet 6 and connect to cisco.com ➜Ethernet0 or fastethernet0.

11. Click cloud which is named as (Internet) Config tab left side fastethernet 6 click that and enable cable option and come again to the left side there it will show under cable coaxial 7 and fastethernet 6 down click the Add option.

12. Come to the main page , click the cisco.com → servives →left side click DHCP change:
   - → Port name: DHCPpool
   - → Defaultgateway: 208.67.220.220
   - → DNS server: 208.67.220.220
   - → Start Ip address: 208.67.220.1
   - → Subnet Mask: 255.255.255.0
   - → Max. no. of users: 50 in down save this and click add.

13. Again in left side u will see DNS click that On the DNS server, name it as Cisco.com, Address: 208.67.220.220 and click add button.

14. On the top go to config tab see whether the display name is Cisco.com give the gateway as 208.67.220.1, dns server as 208.67.220.220.

15. Left side go to Ethernet0 or fastethernet0 give the Ip adderess as 208.67.220.220, subnet mask as 255.255.255.0 close the tab.

16. In the main page click the cisco.com and go to desktop → Command prompt type the following 3 commands :
   - → ipconfig /release
   - →ipconfig/renew and ping Cisco.com

OUTPUT: