**IP ADDRESS COMMAND LINES**

* ipconfig ... Show information of ip
* ipconfig /all ... Show detailed information
* ipconfig /renew ... renew all adapters
* ipconfig /renew EL\* ... renew any connection that has its name starting with EL
* ipconfig /release \*Con\* ... release all matching connections, eg. "Wired Ethernet Connection 1" or "Wired Ethernet Connection 2"
* ipconfig /all compartments ... Show information about all compartments
* ipconfig /all compartments /all ... Show detailed information about all compartments
* tracert google.com…….track is it connected or not
* ping google.com……..if particular destination ip address exists
* nslookup ………………nearest server
* netstart ………………….connection are established or waiting
* arp ………………………..mac address finds

**3. ROUTER (CONFIG) #**

**2. ROUTER#**

**1. ROUTER>**

Fig. modes of router

**Command lines for router mode:**

1. Enable = privileged
2. Configure = global configure
3. Show run = interface show (must be in user mode )

**Change host name is switch**

1. Switch#enable
2. Switch#config t
3. Enter configuration commands, one per line. End with CNTL/Z.
4. Switch(config)#hostname kist

**ROUTER AND CISCO**

**Types of mode of router**

* user EXEC MODE
* Privileged EXEC mode
* Global configuration mode
* Specific configuration mode

**Add router interface ip address**

* **Enable**
* **Conf t**
* **interface fastEthernet 0/0**
* **ip address 172.16.0.1 255.255.0.0**
* **no shutdown**

**There are five passwords for router:**

* **Privileged Mode Password -2**
* **Linen Console Password**
* **Auxiliary Port Password**
* **Telnet Password**

**Privileged Mode Password**

* Step1:Gates(config):

#enable password gates (gates = password=anjan)

* Encrypted privilege mode password
* Step2:Gates(config):

#enable secret gates1 (gates=password=anjan1)

**Disable Password**

* Step1:Gates(config):

#no enable password

* Step2:Gates(config):

#no enable secret

**Console ma password before user mode**

* Step1:Gates(config):

Line console 0

* Step1:Gates(config):

Password (ciso = password)

* Step1:Gates(config):

Login

**Telnet Password**

* Step1:Gates(config):

Line vty 04

* Step2:Gates(config):

Password cisco

* Step3:Gates(config):

Login

**Dns**

* STEP 1 : Router(config)

#ip dhcp pool kist

* STEP 2 :Router(dhcp-config)

#network 172.16.0.0 255.255.0.0

* STEP 3 : Router(dhcp-config)

#default-router 172.16.0.1

* STEP 4: Router(dhcp-config)

#dns-server 10.10.0.0