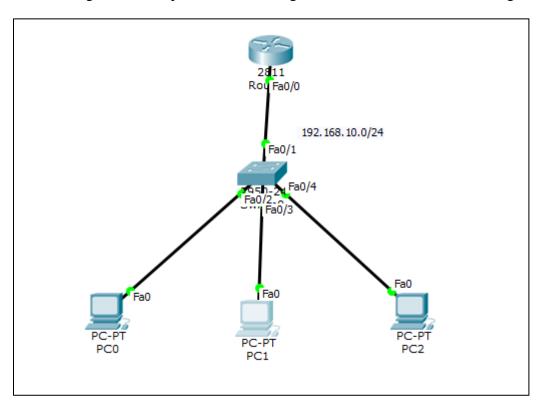
# Military Institute of Science and Technology Department of CSE CSE-310

# **Dynamic Host Configuration Protocol (DHCP)**

# **Practice Problem-1:**

Design the following network in packet tracer. Assign the IP addresses in the PC using DHCP.



# **Step-1: Configure Router(s).**

### Router0

Router>enable
Router#config t
Router(config)#interface f0/0
Router(config-if)#no shutdown
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#exit

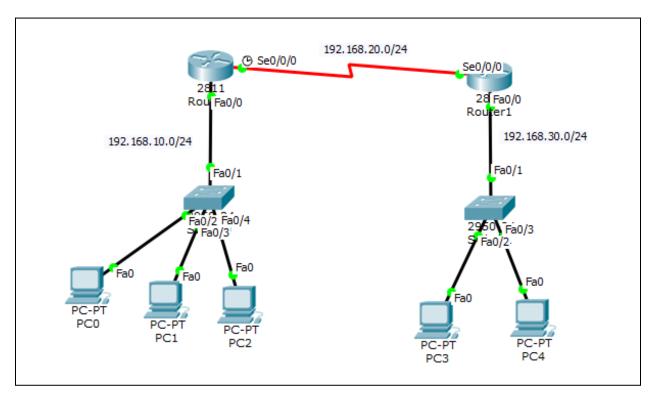
# Step-2: Assign the IP addresses in the PC using DHCP.

### Router0

Router(config)#ip dhcp pool CSE Router(dhcp-config)#network 192.168.10.0 255.255.255.0 Router(dhcp-config)#default-route 192.168.10.1 Router(dhcp-config)#exit

# **Practice Problem-2:**

Design the following network in packet tracer. Use RIP protocol for routing and also assign the IP addresses in the PC using DHCP.



## **Step-1: Configure Router(s).**

### Router0

Router>enable

Router#config t

Router(config)#interface f0/0

Router(config-if)#no shutdown

Router(config-if)#ip address 192.168.10.1 255.255.255.0

Router(config-if)#exit

Router(config)#interface s0/0/0

Router(config-if)#ip address 192.168.20.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#clock rate 64000

Router(config-if)#exit

### Router1

Router>enable

Router#config t

Router(config)#interface f0/0

Router(config-if)#ip address 192.168.30.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface s0/0/0

Router(config-if)#no shutdown

Router(config-if)#ip address 192.168.20.2 255.255.255.0

Router(config-if)#exit

Router(config)#

# **Step2:** Apply RIP to each to the router(s).

### Router0

Router(config)#router rip Router(config-router)#version 2 Router(config-router)#network 192.168.10.0 Router(config-router)#network 192.168.20.0 Router(config-router)#no auto-summary Router(config-router)#exit

### Router1

Router(config)#router rip Router(config-router)#version 2 Router(config-router)#network 192.168.20.0 Router(config-router)#network 192.168.30.0 Router(config-router)#no auto-summary Router(config-router)#exit

# Step-3: Assign the IP addresses in the PC using DHCP.

### Router0

Router(config)#ip dhcp pool CSE Router(dhcp-config)#network 192.168.10.0 255.255.255.0 Router(dhcp-config)#default-route 192.168.10.1 Router(dhcp-config)#exit

### Router1

Router(config)#ip dhcp pool MIST Router(dhcp-config)#network 192.168.30.0 255.255.255.0 Router(dhcp-config)#default-route 192.168.30.1 Router(dhcp-config)#exit