Experiment 3.2

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 Branch: CSE **Section/Group:607A**

Semester: 4th **Date of Performance: 02/05/2022**

Subject Name:Computer Networking Lab **Subject Code: 22E-20CSP-257**

1) Aim/Overview of the practical:

Create a network to implement the DHCP server.

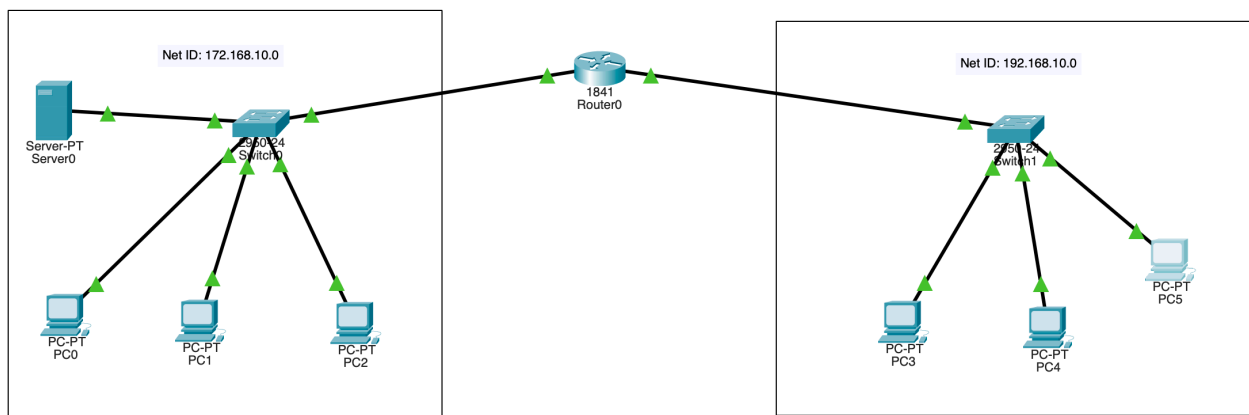**2) Task to be done/ Which logistics used:**

To create a network to implement the DHCP server.

Cisco Packet Tracer

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3) Steps for experiment/practical/Code:

1. We made connection with the server, switch, router and the systems/PC in the packet tracer software.

2. We assigned the IP and gateway address to the server.

3. Then we added gateways in DHCP section in the server

4. Then we gave some command in CLI of router.

5. Then we assigned IP address to the PCs by click the DHCP option in configuration section.

4. Result/Output/Writing Summary:

Router0

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ip address 172.168.10.0 255.255.0.0
Router(config-if)#ip address 172.168.10.1 255.255.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
no ip address
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#
Router(config-if)#
Router(config-if)#en
% Ambiguous command: "en"
Router(config)#
Router(config)#cong terminal
                 ^
% Invalid input detected at '^' marker.

Router(config)#terminal
                ^
% Invalid input detected at '^' marker.

Router(config)#int fa0/1
Router(config-if)#ip helper-address 172.168.10.2
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router# enable
Router#config
Configuring from terminal, memory, or network [terminal]? terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fa 0/1
Router(config-if)#ip helper-address 172.168.10.2
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Command+F6 to exit CLI focus   Copy   Paste

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Outcome:

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Learning outcomes (What I have learnt):

1. **Learnt about Cisco Packet Tracer.**

2. **Learnt how the DHCP server works.**

3. **Learnt how IP is assigned in the DHCP network.**

4.

5.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

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