Name : Waqar Ahmed
Roll No: 20P-0750
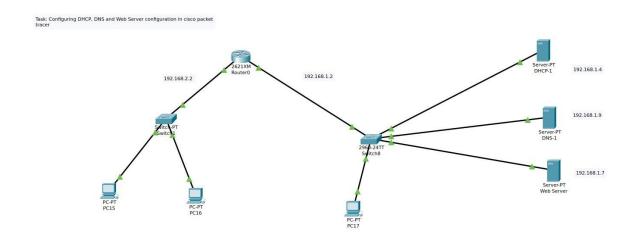**Task No: 05**

Exp1: DNS server configuration in Packet Tracer.

192.168.1.1
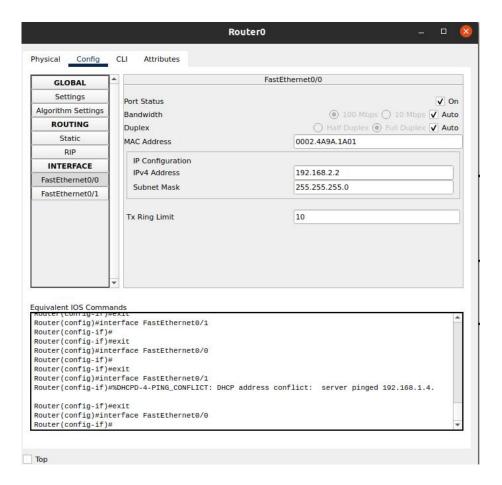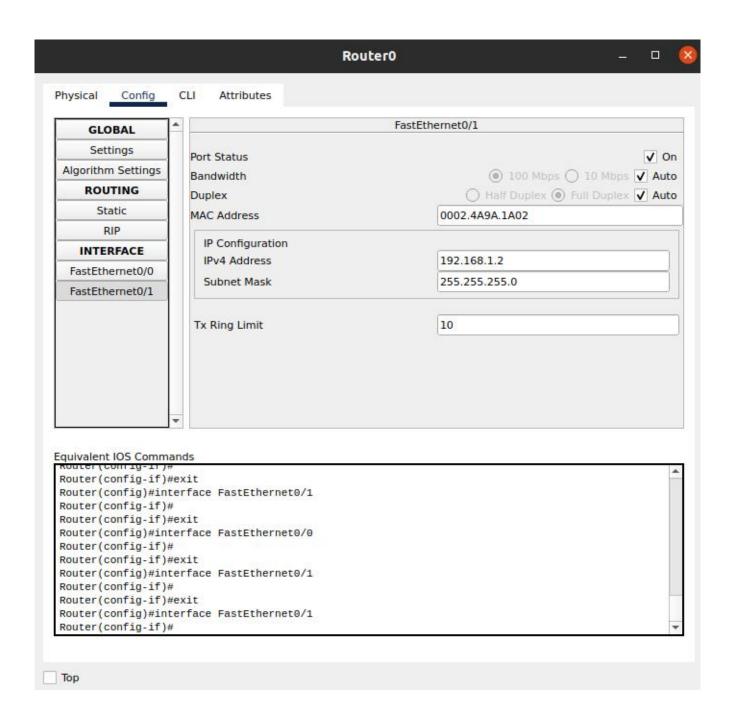
2911
Router1

2960-24TT
Switch0

Server-PT
Server0

192.168.1.11

PC-PT
PC0

PC-PT
PC1

192.168.1.12

Exp:2

Step1: Create This Topology.

Task: Configuring DHCP, DNS and Web Server configuration in cisco packet tracer

Step2: Assign Ip address to F0/0 and F0/1 of router.

Router0

Physical | Config | CLI | Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet0/1

FastEthernet0/0

Port Status	☑ On
Bandwidth	◉ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex	◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address	0002.4A9A.1A01

IP Configuration

IPv4 Address	192.168.2.2
Subnet Mask	255.255.255.0

Tx Ring Limit | 10

Equivalent IOS Commands

```
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#%DHCPD-4-PING_CONFLICT: DHCP address conflict:  server pinged 192.168.1.4.

Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

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Step3: Open the CLI tab in the **Router0** and go the configuration mode and execute the following commands.

To Go To the configuration mode
=> **configure terminal**

```
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#ip dhcp pool P1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.2
Router(dhcp-config)#ip dhcp pool P2
Router(dhcp-config)#network 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.2.2
Router(dhcp-config)#
```
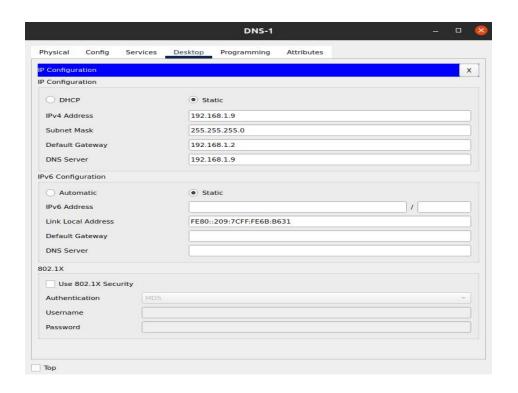
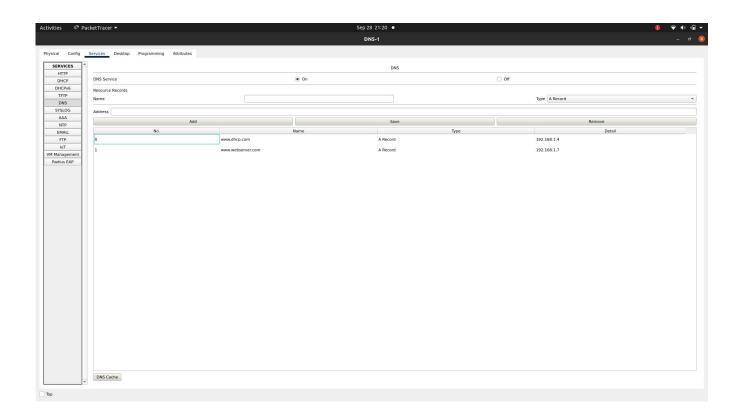**Step4:** Apply follows setting on DHCP IP configurations.

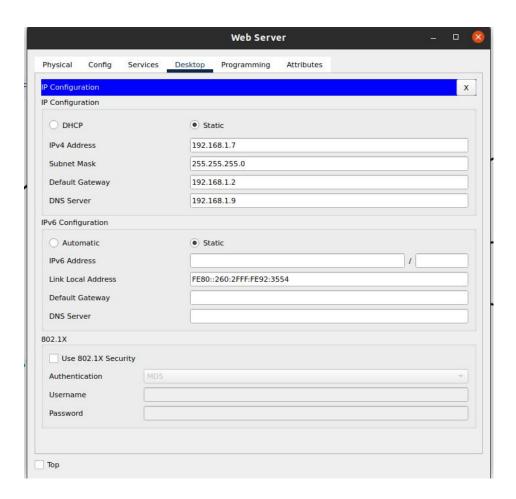**Step5:** Open the services tab and enable DHCP Services and Add Pool P1 and Pool P2 with respective Ip Address.

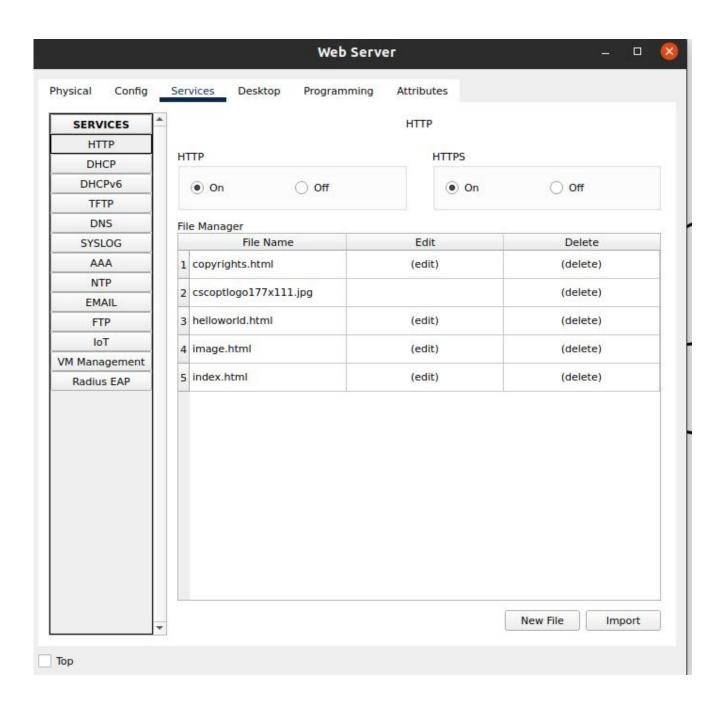**Step 6:** Apply follows setting on DNS Ip configuration.

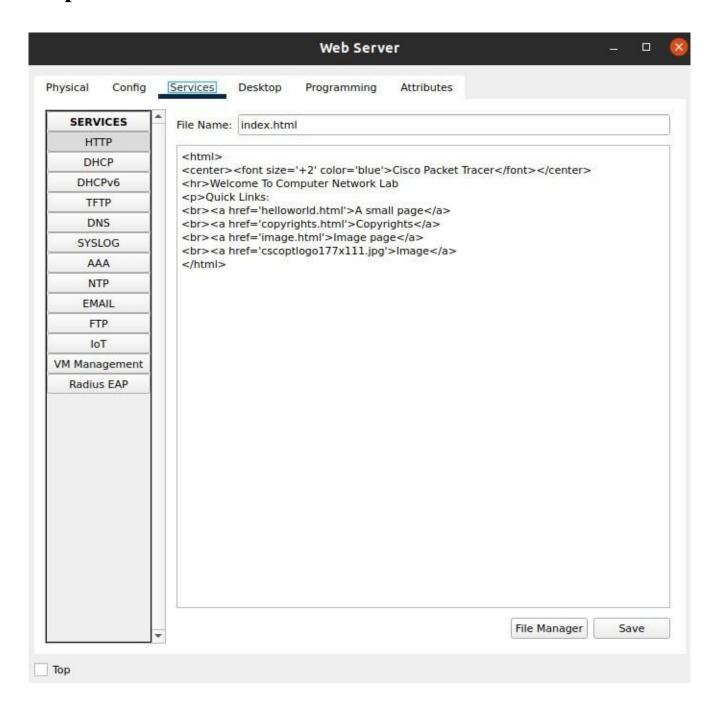**Step7:** Enable DNS Services of DNS and add two resources records. Remember To On the DNS Service.

Step8: Apply following IP configuration on the Web Server.

Web Server

Physical Config Services **Desktop** Programming Attributes

IP Configuration   X

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.1.7

Subnet Mask   255.255.255.0

Default Gateway   192.168.1.2

DNS Server   192.168.1.9

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address   [   ] / [   ]

Link Local Address   FE80::260:2FFF:FE92:3554

Default Gateway   [   ]

DNS Server   [   ]

802.1X

☐ Use 802.1X Security

Authentication   MD5

Username   [   ]

Password   [   ]

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Step9: Go to Services Tab and then Enable Http and Https in Web Server.

Step10: Edit the index.html file

Step11: Now go to every PC and on their IP configuration tabs, enable DHCP. Every PC should be able to obtain an IP address, default gateway and DNS server.

Click PC17->Desktop->IP configuration. Then enable DHCP: