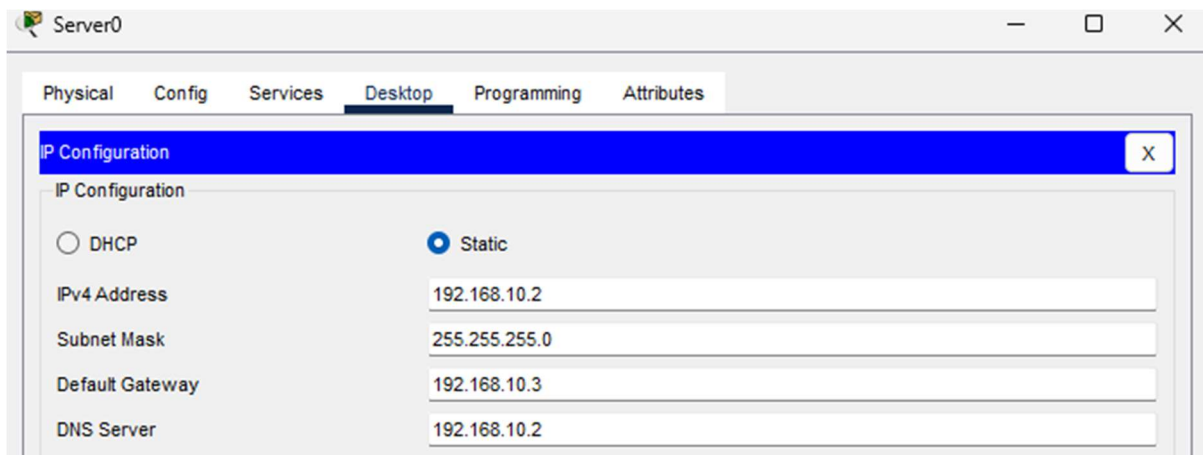


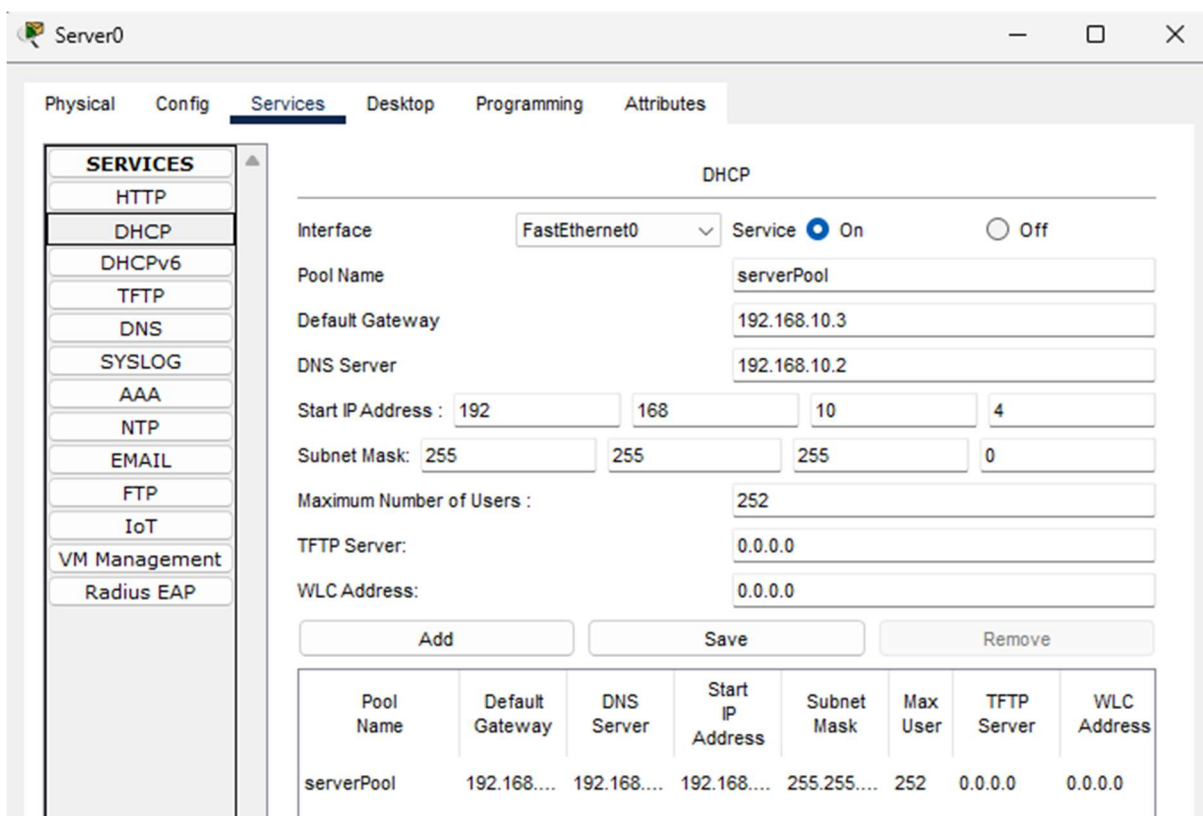
Implementation :-

- **Configure the Server:**



The screenshot shows the 'Server0' window with the 'Desktop' tab selected. The 'IP Configuration' section is active, displaying the following settings:

Field	Value
IPv4 Address	192.168.10.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.3
DNS Server	192.168.10.2



The screenshot shows the 'Server0' window with the 'Services' tab selected. The 'DHCP' service is configured for the 'FastEthernet0' interface. The settings are as follows:

Field	Value
Interface	FastEthernet0
Service	On
Pool Name	serverPool
Default Gateway	192.168.10.3
DNS Server	192.168.10.2
Start IP Address	192.168.10.4
Subnet Mask	255.255.255.0
Maximum Number of Users	252
TFTP Server	0.0.0.0
WLC Address	0.0.0.0

Buttons: Add, Save, Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168....	192.168....	192.168....	255.255....	252	0.0.0.0	0.0.0.0

- **Configure PC0:**

The screenshot shows the configuration window for PC0. The 'Desktop' tab is selected. The 'IP Configuration' section is expanded, showing the 'FastEthernet0' interface. The 'DHCP' radio button is selected, and the 'Static' radio button is unselected. The IP address is set to 192.168.10.5, the subnet mask is 255.255.255.0, the default gateway is 192.168.10.3, and the DNS server is 192.168.10.2.

Interface	FastEthernet0
IP Configuration	
<input checked="" type="radio"/> DHCP	<input type="radio"/> Static
IPv4 Address	192.168.10.5
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.3
DNS Server	192.168.10.2

- **Configure PC1:**

The screenshot shows the configuration window for PC1. The 'Desktop' tab is selected. The 'IP Configuration' section is expanded, showing the 'FastEthernet0' interface. The 'DHCP' radio button is selected, and the 'Static' radio button is unselected. The IP address is set to 192.168.10.4, the subnet mask is 255.255.255.0, the default gateway is 192.168.10.3, and the DNS server is 192.168.10.2.

Interface	FastEthernet0
IP Configuration	
<input checked="" type="radio"/> DHCP	<input type="radio"/> Static
IPv4 Address	192.168.10.4
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.3
DNS Server	192.168.10.2

In order to check the connectivity , Let us suppose, send a ping command from Server0 to PC1 (pinging PC1 from Server0) as follows :-

```
Cisco Packet Tracer SERVER Command Line 1.0
C:\>ping 192.168.10.4

Pinging 192.168.10.4 with 32 bytes of data:

Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time=1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128
Reply from 192.168.10.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Similarly the ping message can be checked for all the devices.

Result:

Hence the Connectivity of the network has been verified.