Practical No: 3
Static Routing
Configure IP static routing

astatic routing is a form of routing that occurs when a router uses a manually-configured routing entry, rather than information from dynamic routing traffic.

Requirements: Cisco Packet Tracer

&tep 1:

Drag and drop the devices which are needed for the practicals

08 tep 2:

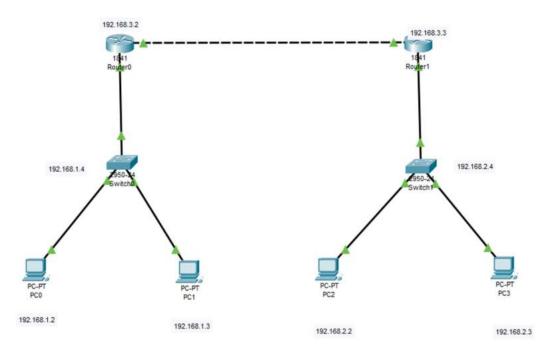
Configure nowler so that we connect serial wire for serial connection we have use port NM-4AS port which has 4 serial ports Kindly make the port setting in both the nowters.

Note: Make sure you switch off the device before doing port setting.

		15
		- FI X
PCO	1111	- 4 ^
Physical Config	Desktop Programming Attributes	
Interface Fast	Ethernet 0	<u> </u>
IP configuration	@ static	
IP Address	192-168.1.2	
Subnet Mask	255.255.255.0	- Party and and
Default Gateway	192.168.1.1	
DNS server	0.0.0.0	same sittle
PC1		-
IP configuration O DHCP	@ Slatic	
IP Address	192.168.1.3	
Subnet Mask	255.255.255.0	
Default Galeway	192.168.1.1	
DNS Server	0.0.0.0	
PC2		
IP configuration ODHCP	(a) Static	
IP Address	192.168.2.2	
	255.255.255.0	
Subnet Mask	192.168.2.1	
Default Gateway	0.0.0.0	
DNS Server	0.0.00	
PC3 P configuration		7
ODHCP	@ Static	
P Address	192.168.2.3	
ubnet Mack	255.255.255.0	
refault Gateway	192.168.2.1	
DNs server	0.0:0.0	

Practical 4

Aim:-Configure IP Routing Using RIP



Step 1:-Drag and drop the devices which are needed for the Practical.

Step 2:-

Configure Router and use automatically chooses Connection type wire to connect all the devices.

Step:-3

Put the appropriate IP address and turn on the connection.

Step:-4

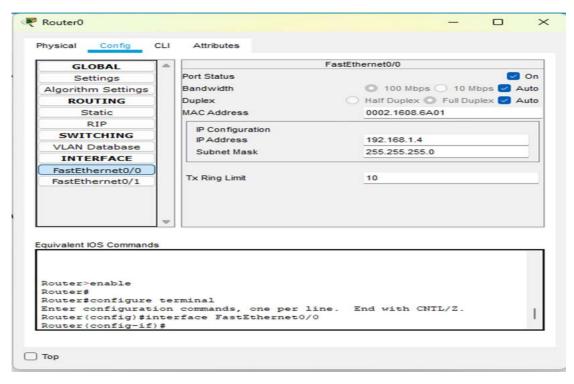
Go to the config menu of the router and complete the entire RIP Configuration. Put the network address and Click on ADD Button.

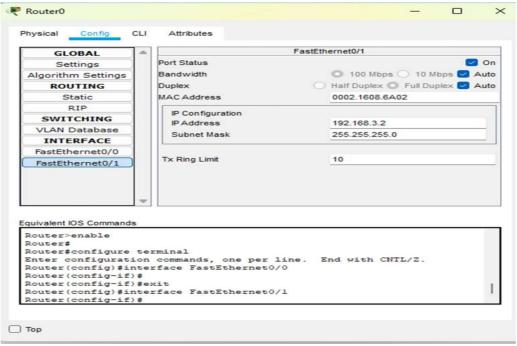
Step-5

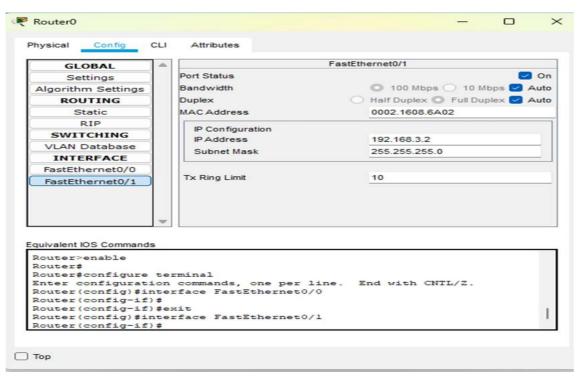
Configuration of all PCs with their default gateway.

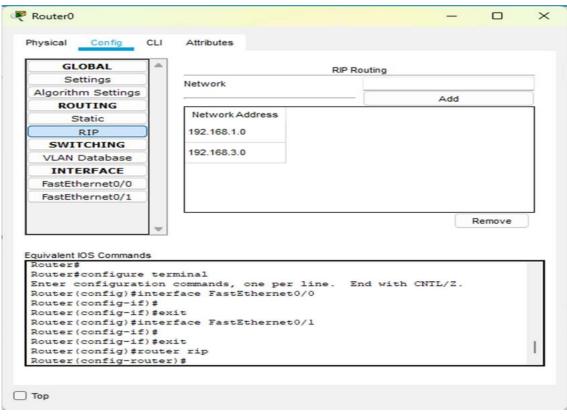
Step6:-

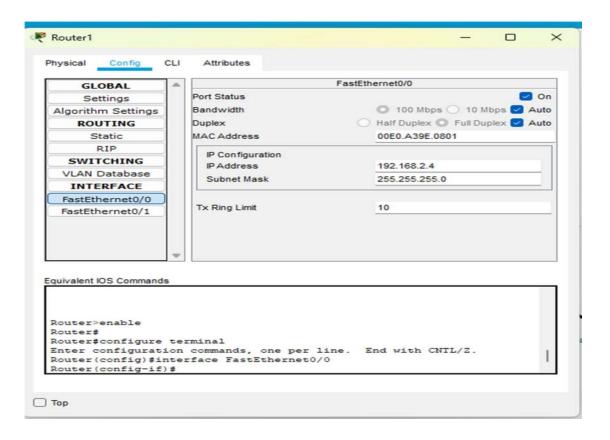
Send the message and Check whether the result is successful or not.

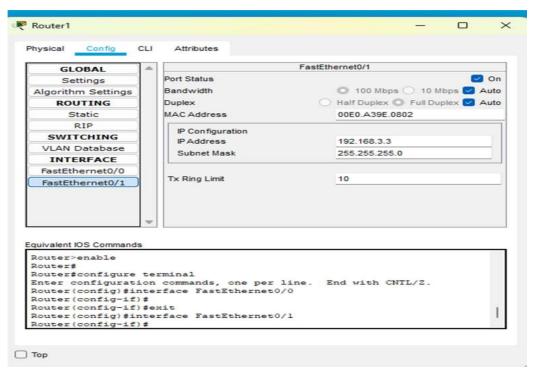


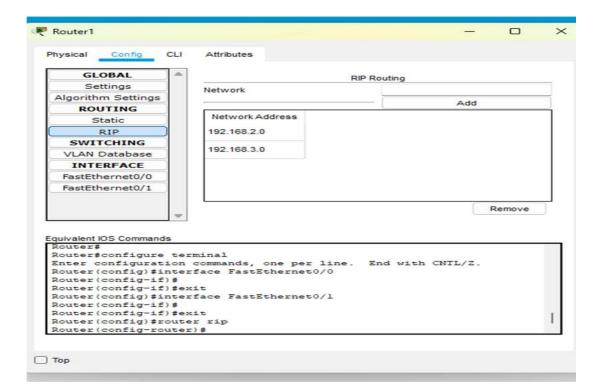


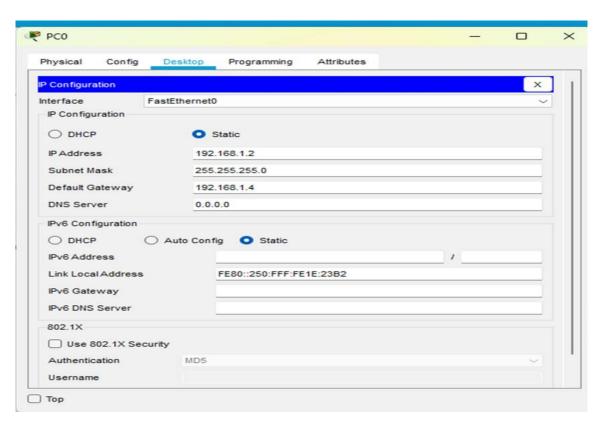


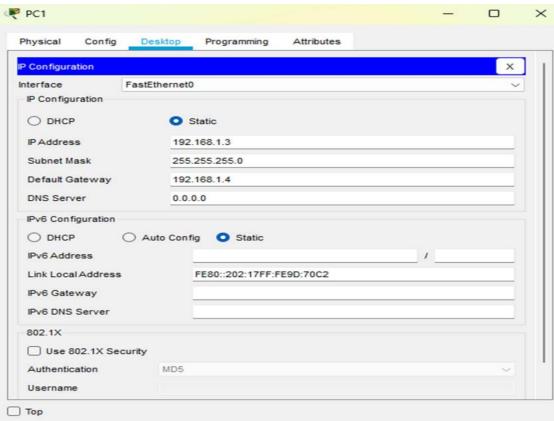


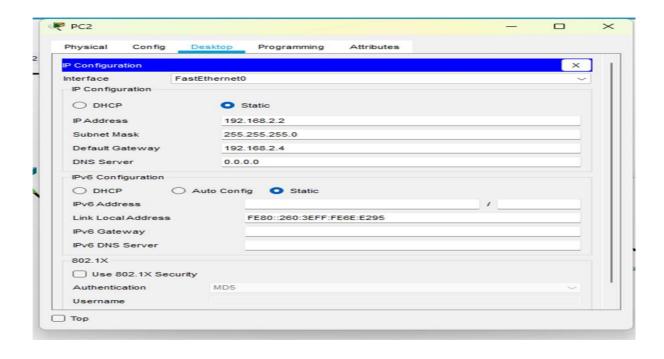


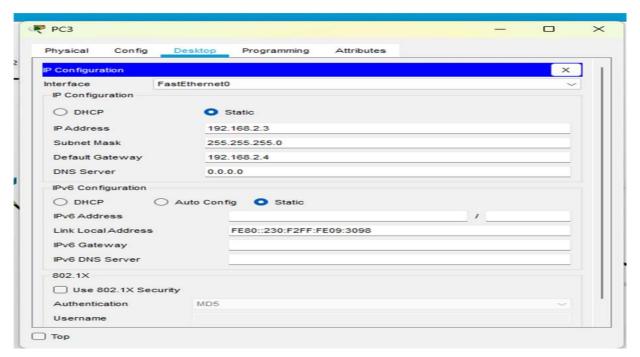












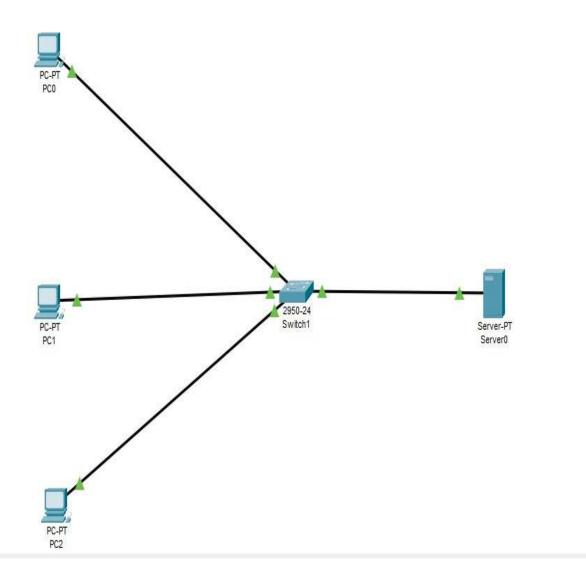
Practical-5

Aim: Configure IP routing using DNS.

DNS Stands for Domain Name System. It's a system used to translate human-friendly domain names like www.worldwideweb.com into ip addresses that computer use to identify each other on the internet.

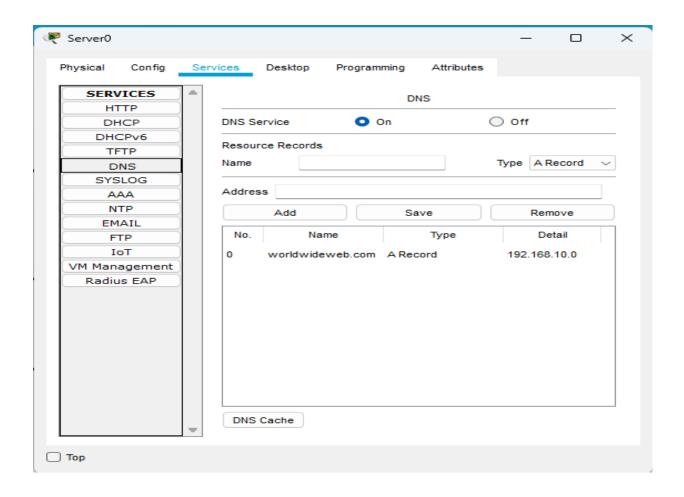
Requirements:- Cisco Packet Tracer.

Step1:- Drag and Drop all the devices. And connect it by using appropriate wire.

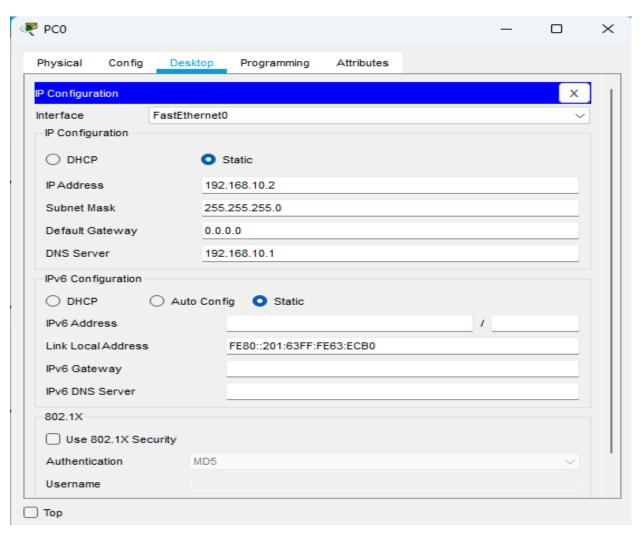


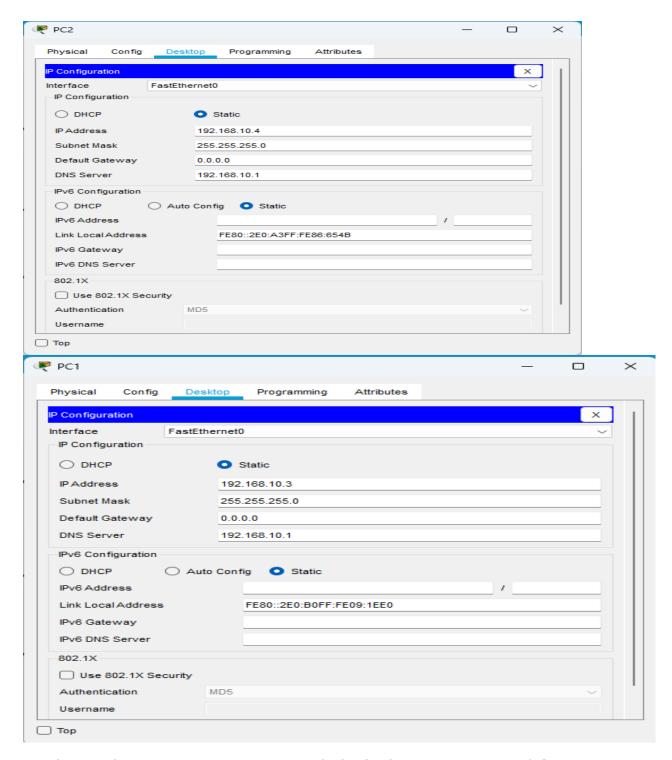
Step2:- Go to the services tab select DNS Services. And add domain name worldwidewb.com as well IP

address.



Step 3:- configuration of PC Put IP and DNS server Address.





Step 4:- Send messages Server to PC and check the status Successful or not.



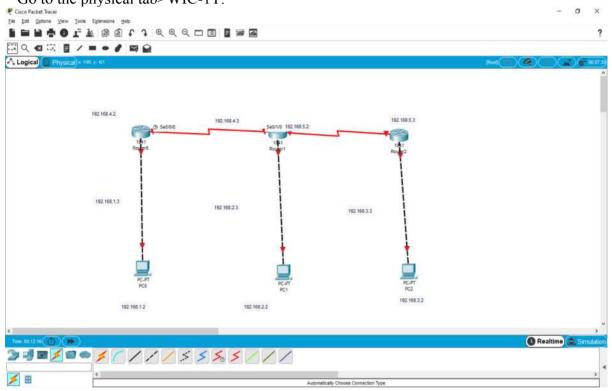
Practical 6

Aim: - Configure Multi area Open Shortest Path First (OSPF).

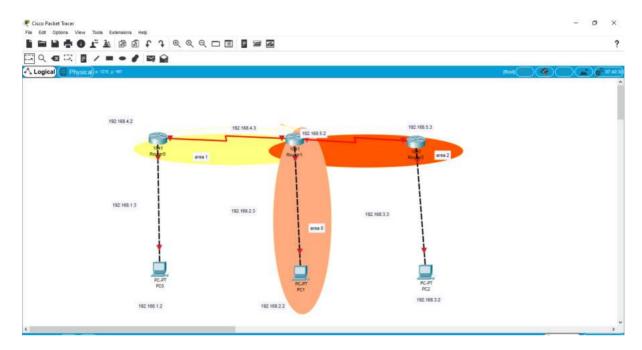
Requirements: - Cisco Packet Tracer.

Step1:- Drag and Drop all the devices. And connect it by using appropriate wire (Automatic choose connection).

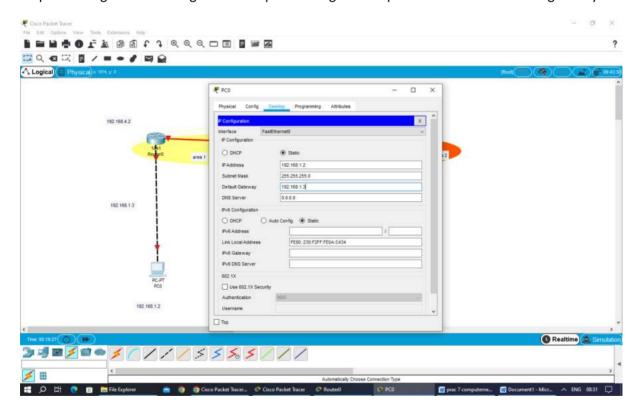
Use 1841 Router as well as add extra ports that is router 3&0-1 port , router 2-1 port. Go to the physical tab>WIC-1T.



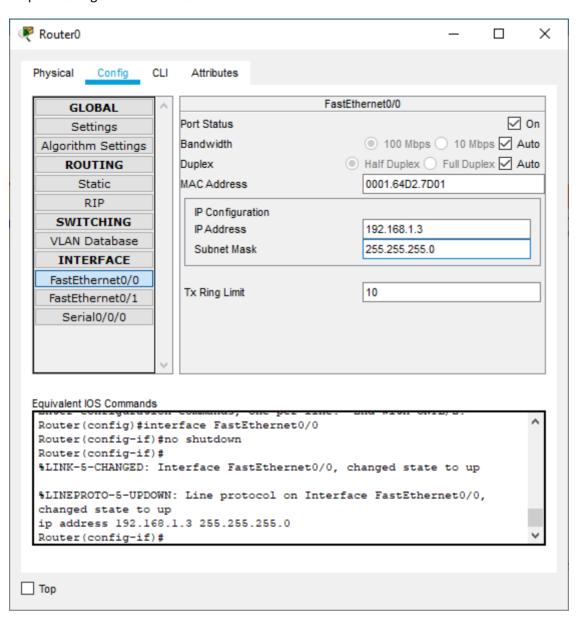
Step 2:- create area 1, area 0, area 2

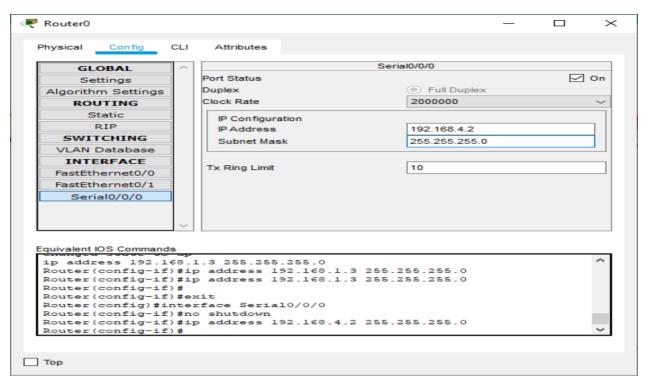


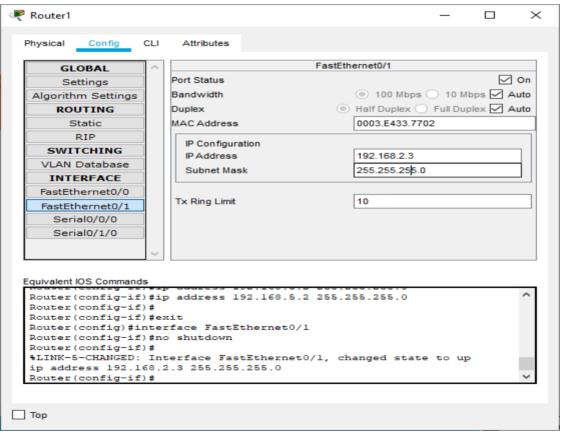
Step 3:- Configure all the PC go to Desktop> IP Configuration>put IP address and Default gateway.

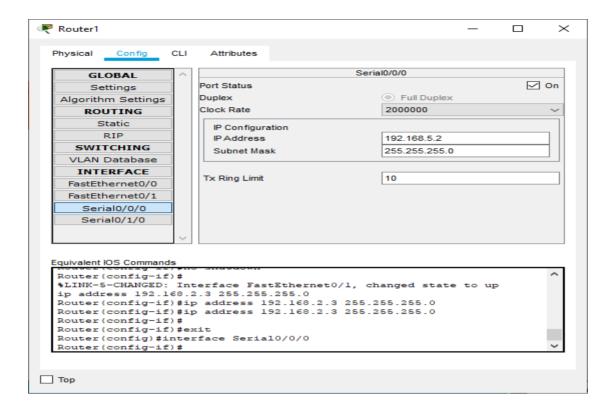


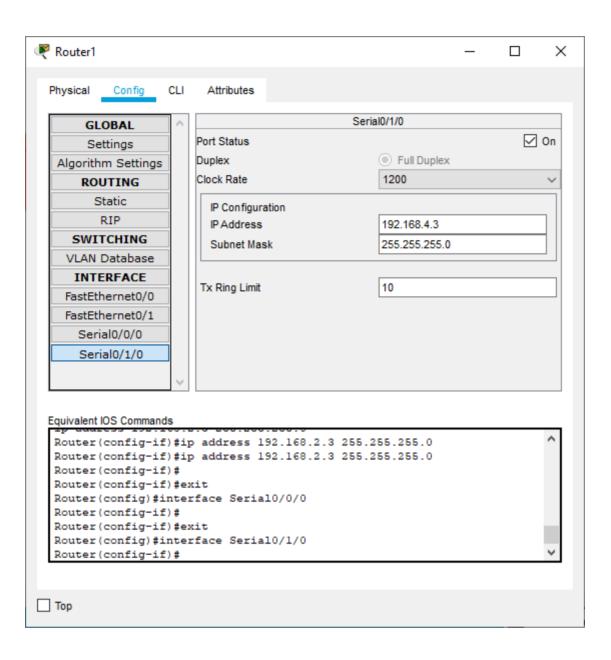
Step-4:- Configuration of Routers.



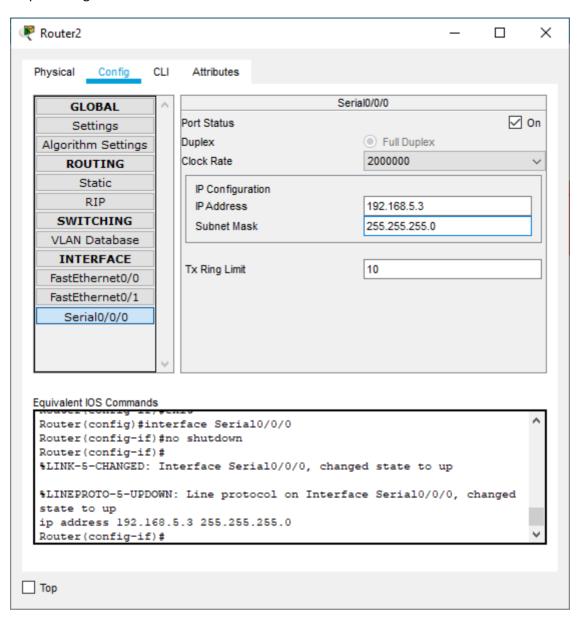


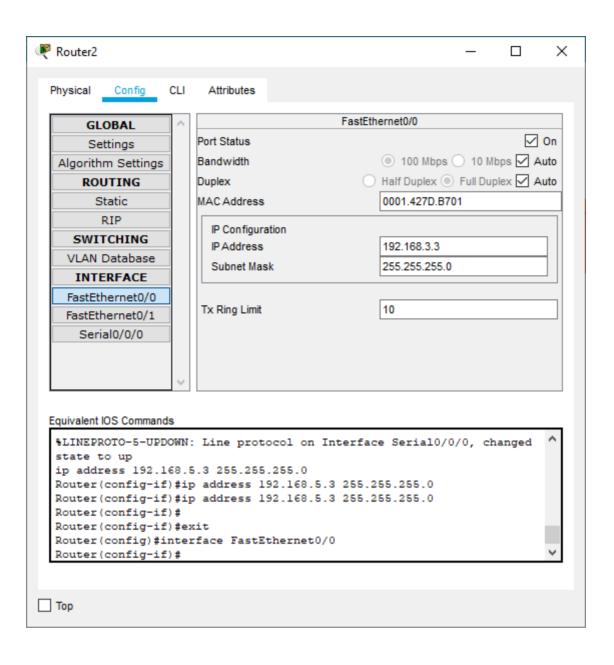


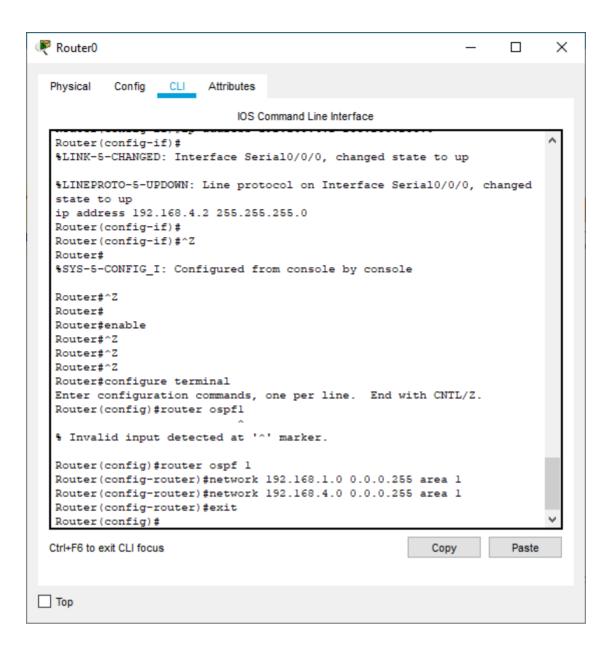


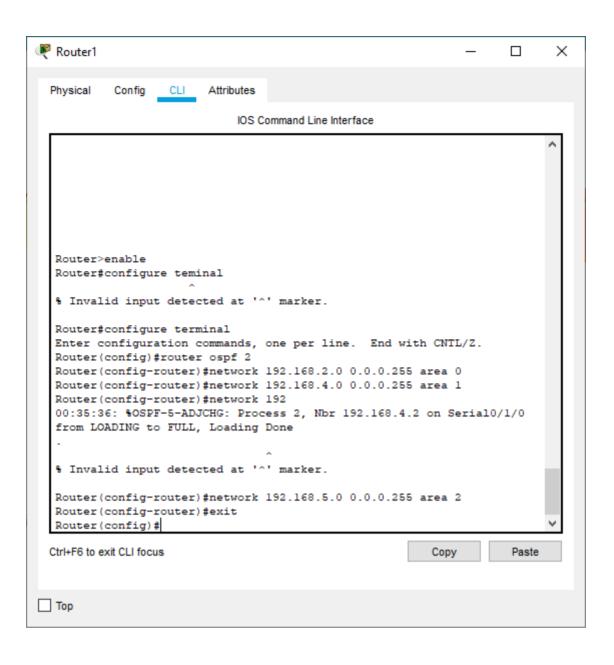


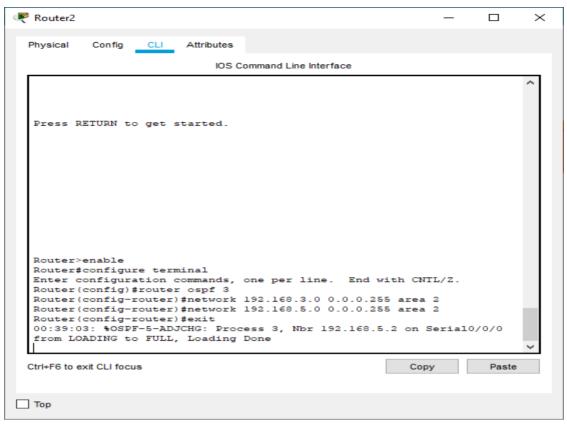
Step 6-Configuration of OSPF

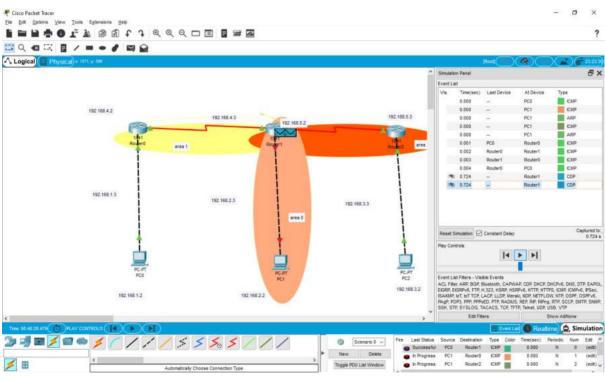










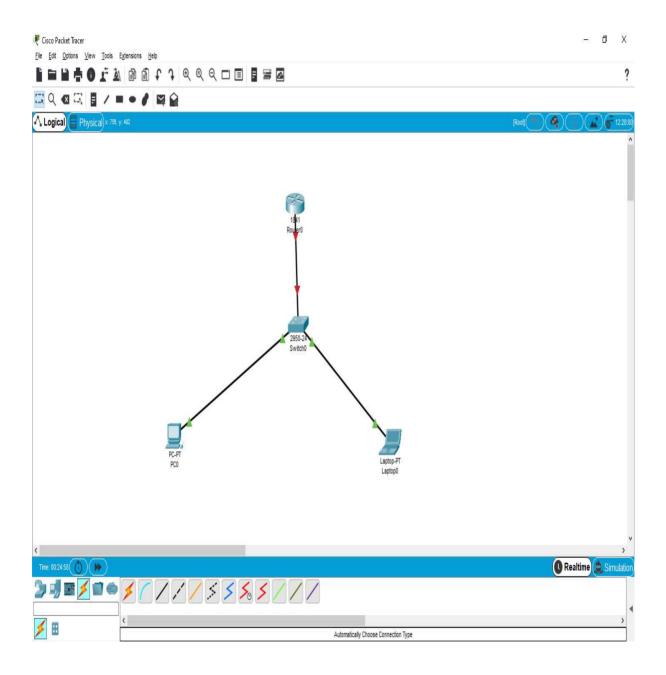


Practical no. 7

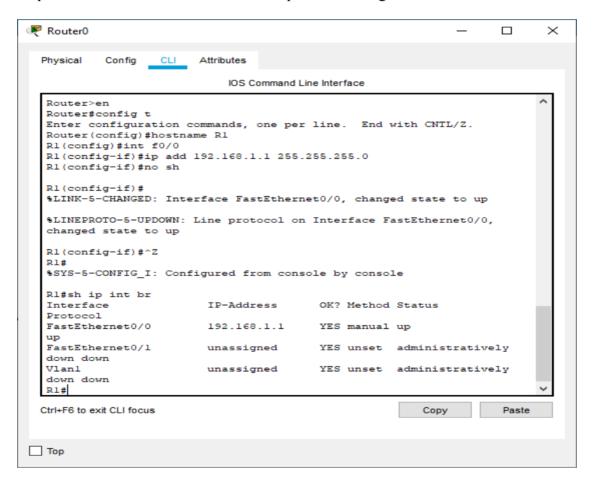
Aim:-Configure Dynamic host Configuration Protocol.

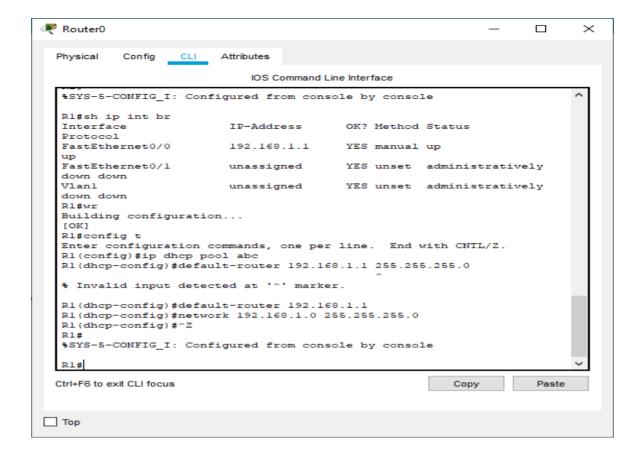
Requirements: - Cisco Packet Tracer.

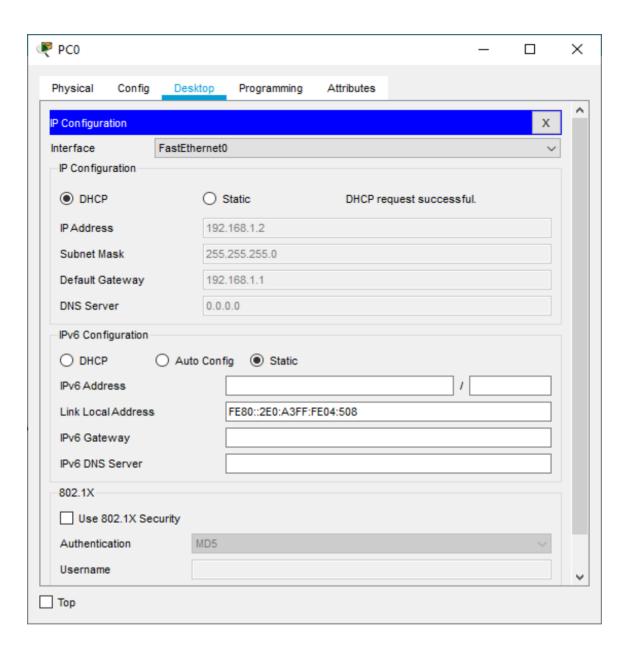
Step 1:- Drag and Drop all the devices. And connect it by using appropriate wire (Automatic choose connection) Use 1841 Router, Switch 2950-24.

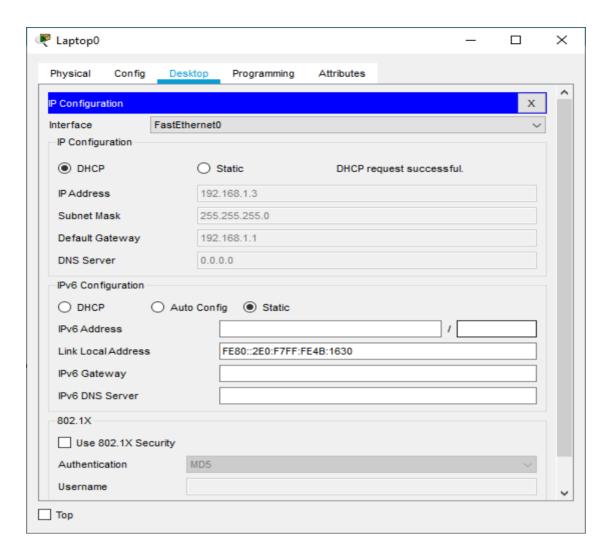


Step 2:- Go to CLI tab of router0 and complete the configuration.







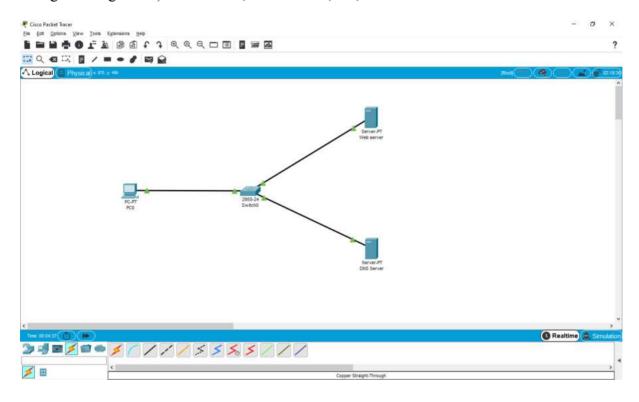


Practical no. 8

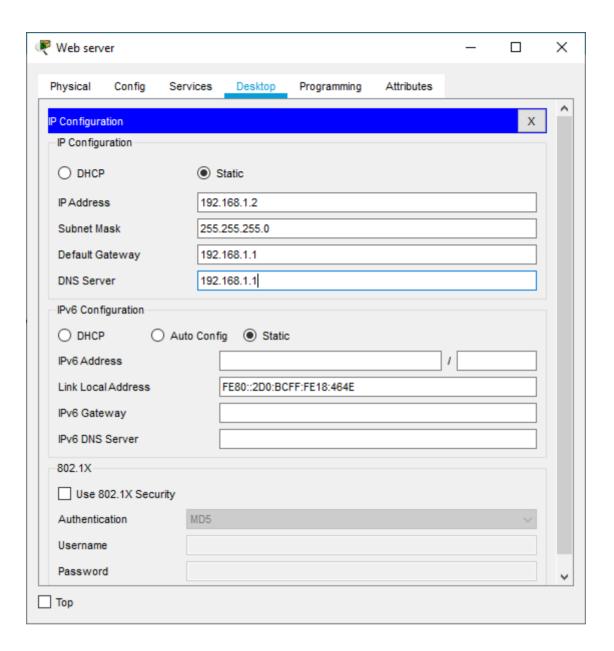
Aim:-Configure HTTP (Hypertext transfer Protocol.)

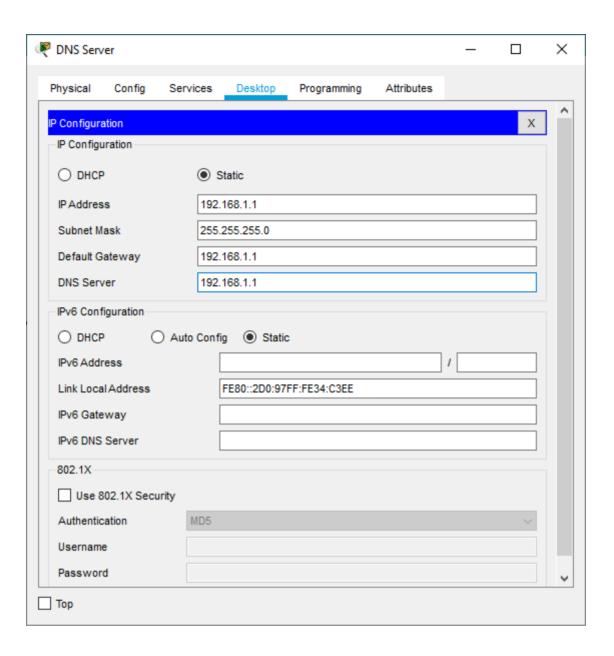
Requirements: - Cisco Packet Tracer.

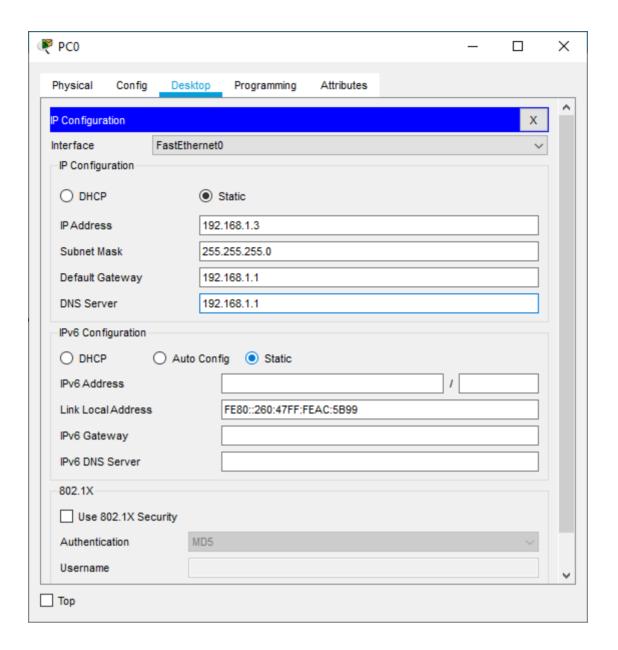
Step 1:- Drag and Drop all the devices. And connect it by using appropriate wire (Use Copper Straight through wire) Web Server, DNS Server, PC, Switch 2950-24.



Step 2:- Assign IP address and DNS Server address as well as default gateway.







P DNS Server × Config Services Desktop Programming Attributes SERVICES DNS HTTP Off DHCP DNS Service On DHCPv6 Resource Records TFTP Type A Record Name DNS SYSLOG Address AAA NTP Add Save Remove **EMAIL** No. Name Туре Detail FTP IoT cisco A Record 192.168.1.2 VM Management Radius EAP DNS Cache

Тор

Step 3:- On the DNS Service give name-Cisco & Address- 192.168.1.2

Step 4:- Go to HTTP Services edit Index.html and save the file. P DNS Server × Services Physical Config Desktop Programming Attributes SERVICES File Name: index.html HTTP <html> DHCP <h1> Hello Cisco</h1> DHCPv6 </html> TFTP DNS SYSLOG AAA NTP **EMAIL** FTP IoT VM Management Radius EAP

Тор

File Manager

Save

Step 5:- Go to Web Server>Desktop> Web Browser> Put URL 192.168.1.1 By using HTTP We Can access the File which is available on DNS Sever.

