Practical No. 3 Static Routing Configure IP static nouting

astatic nouting is a form of nouting that occurs when a nouter uses a manually-configured nouting entry, nather than information from dynamic nouting traffic

Requirements: Ciaco Packet Tracer

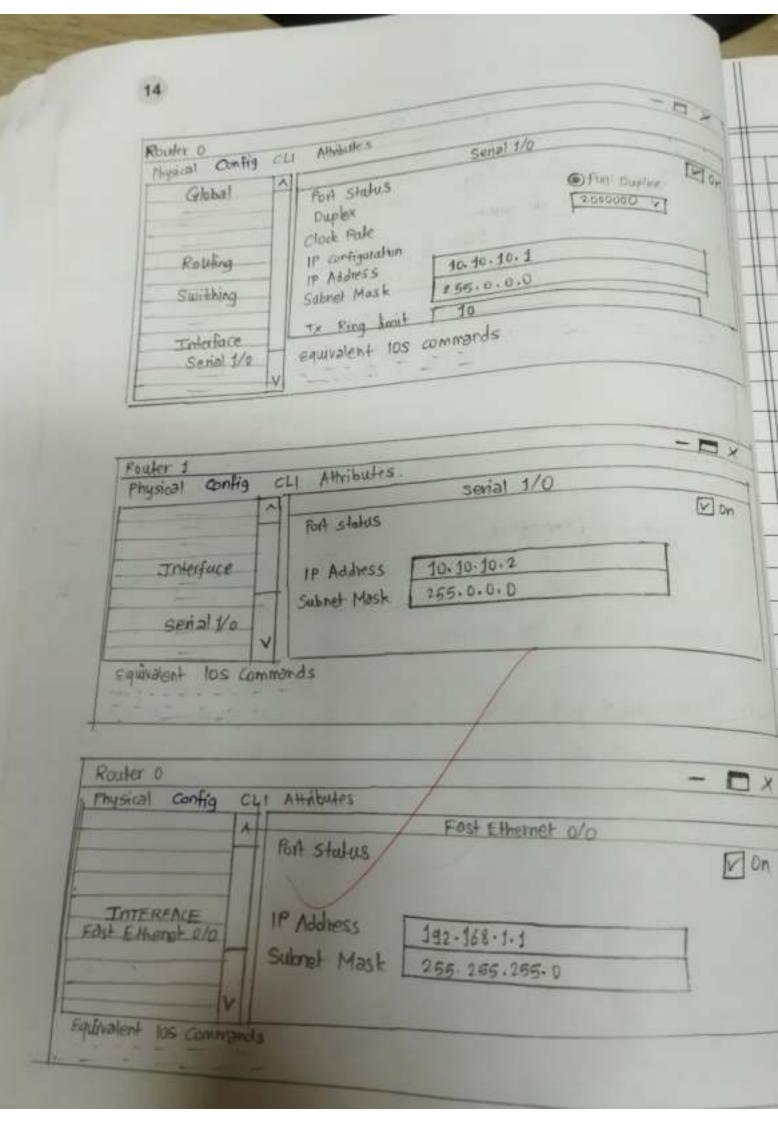
step 1:

Drag and drop the devices which are needed for the practicals

ostep 2:

Configure router 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 routers

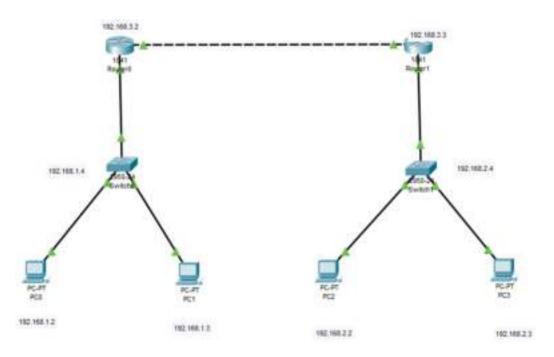
Note: Make sure you switch off the device before doing port setting.



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		- FI X
PCO	Dockho Romannin Attributes	
Physical Config	peaking traditional	~
Interface Fagi	Ethernet 0	
IP configuration O DNCP	@ Słałic	
1P Address	192-168.4.2.	
Subnet Mask	265.255.255.0	
Default Gaknay	192-168. [+]	
DNS Sener	0.0.0.0	
PC1		
O DHCF	@ Slatic	1
IP Address	192-168-1-3	
Subret Mask	255.255.255.0	
Delaut Galeway	192-168-1-1	
DNS Server	0.0.0.0	
PC2		•
IP configuration ODHCP	() Static	
	192-168-2-2	
IP Address	255-255-255.0	
Subnet Mask	132+168-2-1	
Default Galeray		
DNS Server	0.0.0.0	
Pcs		
P configuration O DHCP	@ Static	
P Address	192-168-2-3	
ubret Mack	255.255.255.0	
efault Galenay	192-168-2-1	

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

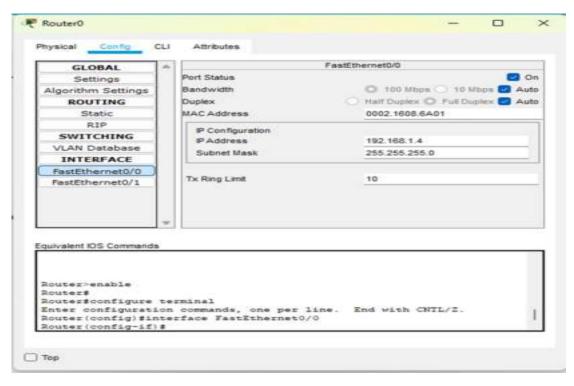
Go to the config menu of the router and complete the entire RIP Configuration. Put the network address and Click on ADD Button.

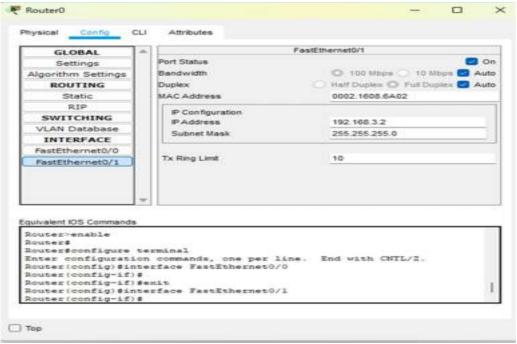
Step-5

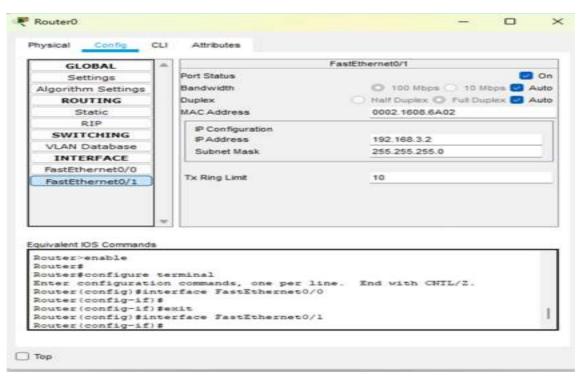
Configuration of all PCs with their default gateway.

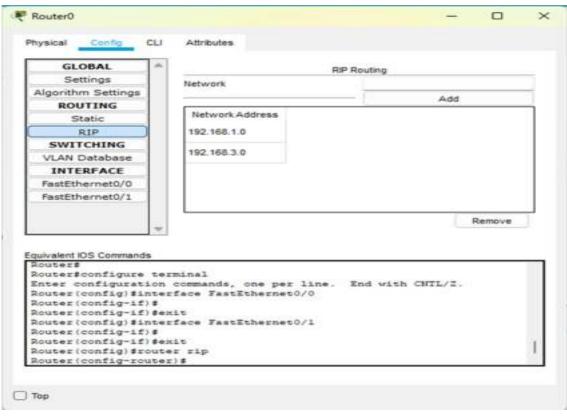
Step6:-

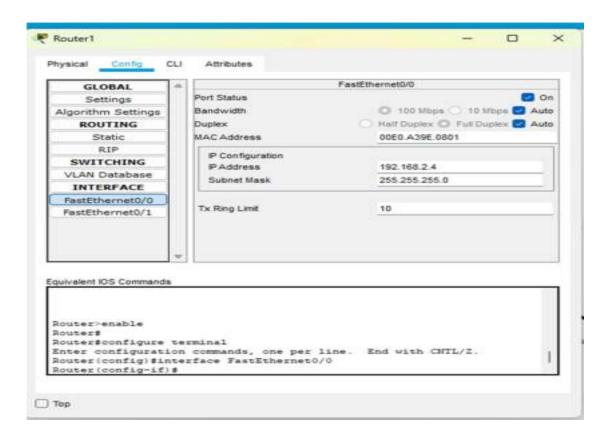
Send the message and Check whether the result is successful or not.

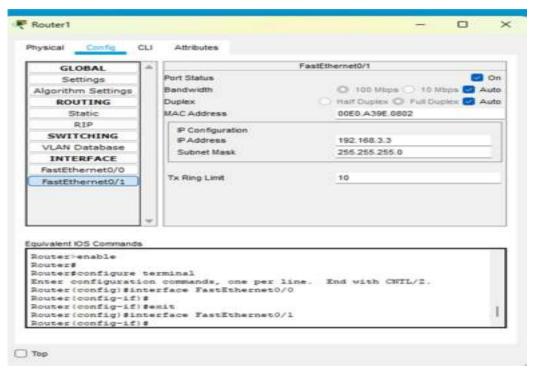


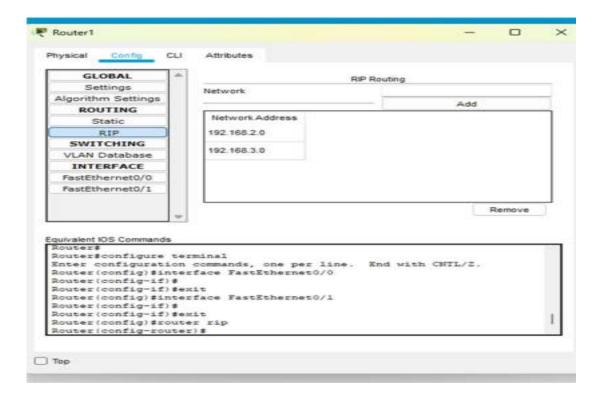


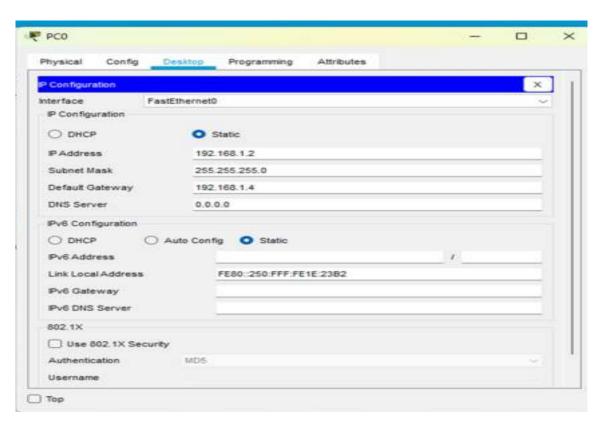


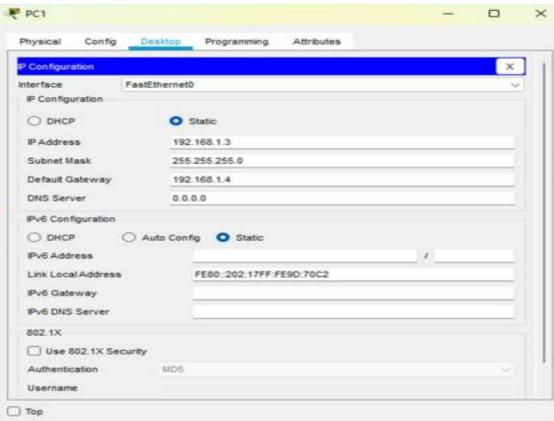


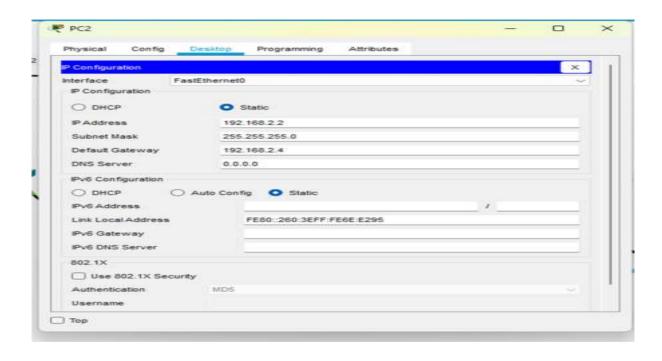


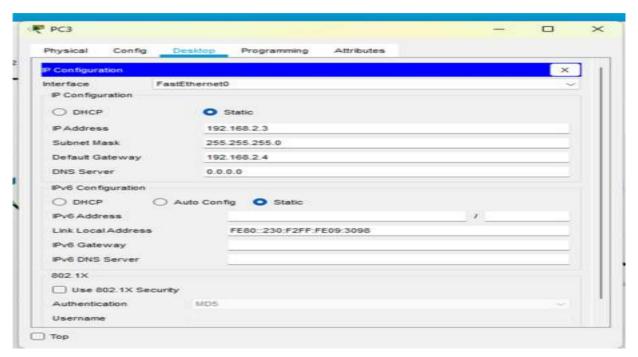












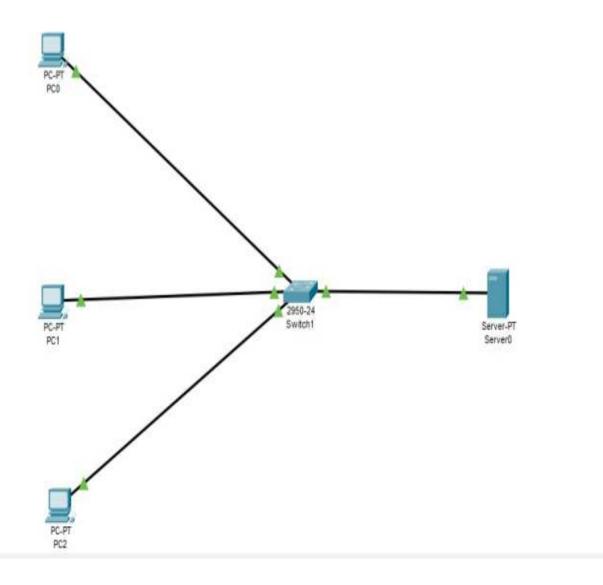
Practical-5

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.

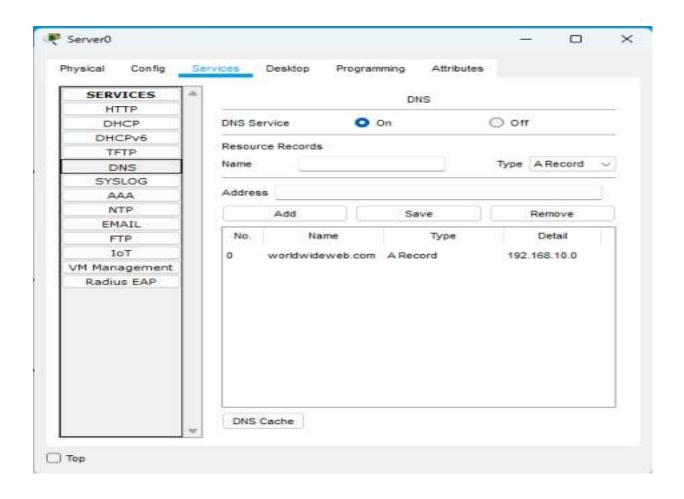
Requirements:- Cisco Packet Tracer.

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

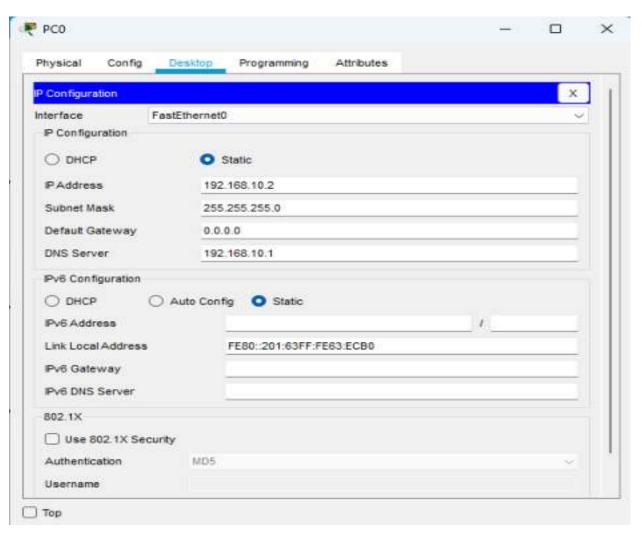


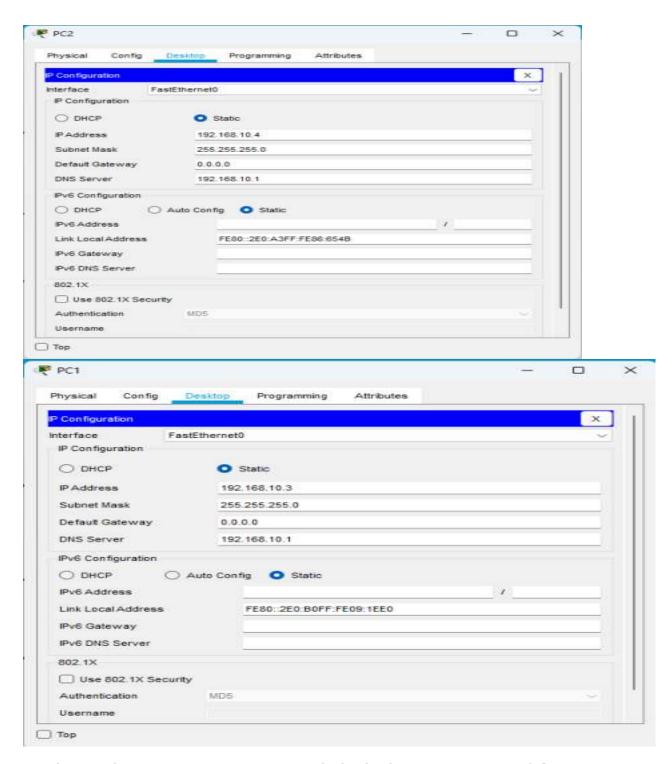
Step2:- Go to the services tab select DNS Services. And add domain name worldwidewb.com as well IP

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.



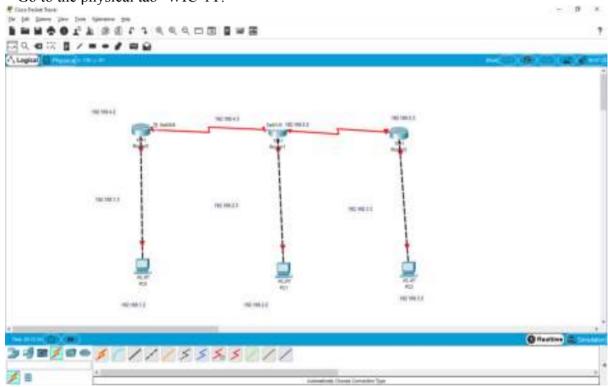
Practical 6

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

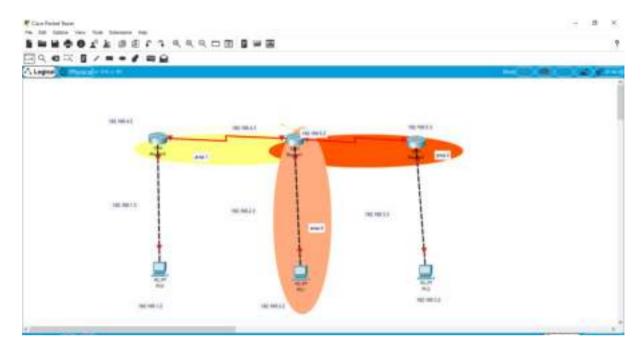
Requirements: - Cisco Packet Tracer.

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

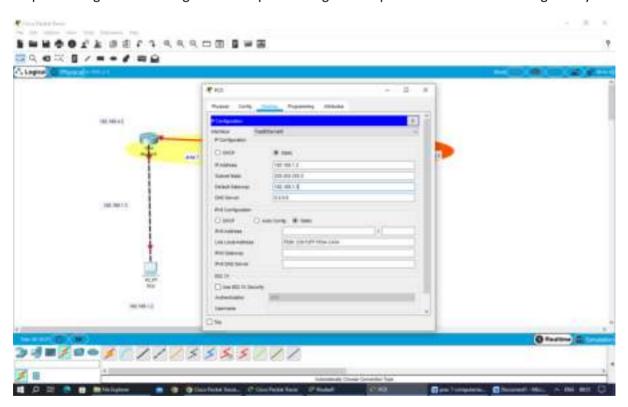
Use 1841 Router as well as add extra ports that is router 3&0-1 port , router 2-1 port. Go to the physical tab>WIC-1T.



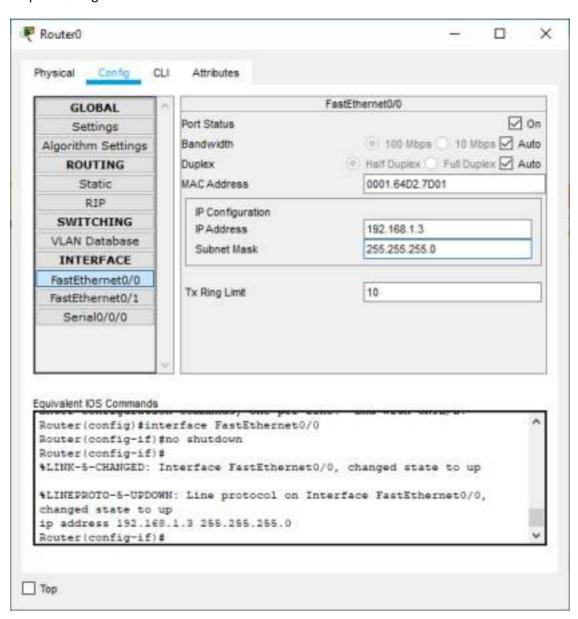
Step 2:- create area 1, area 0, area 2

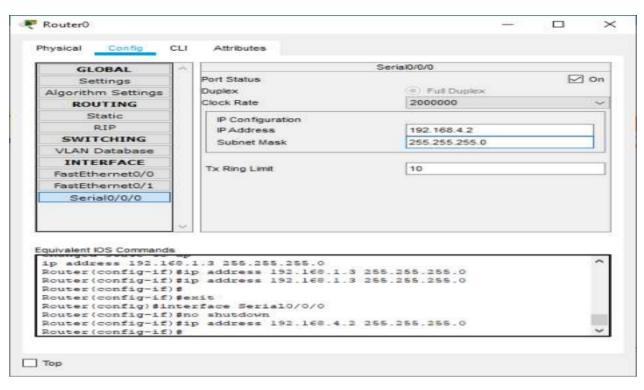


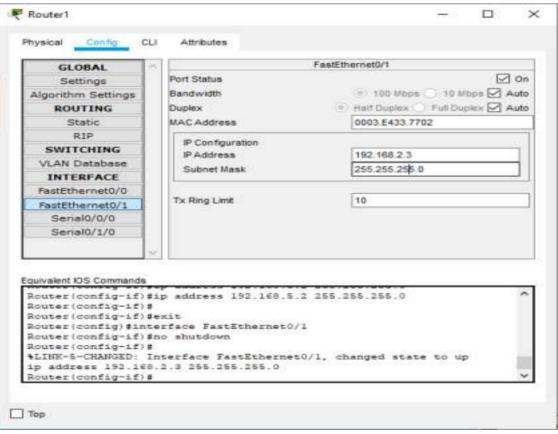
Step 3:- Configure all the PC go to Desktop> IP Configuration>put IP address and Default gateway.

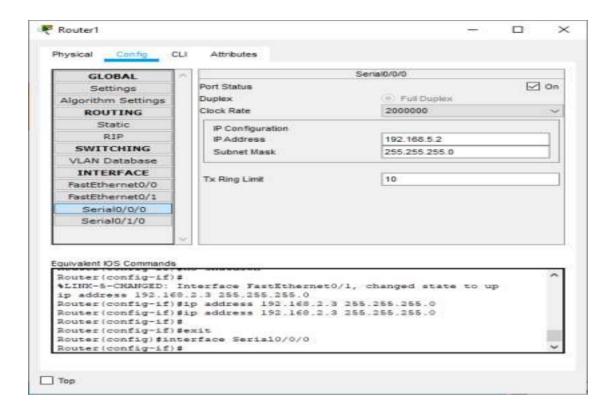


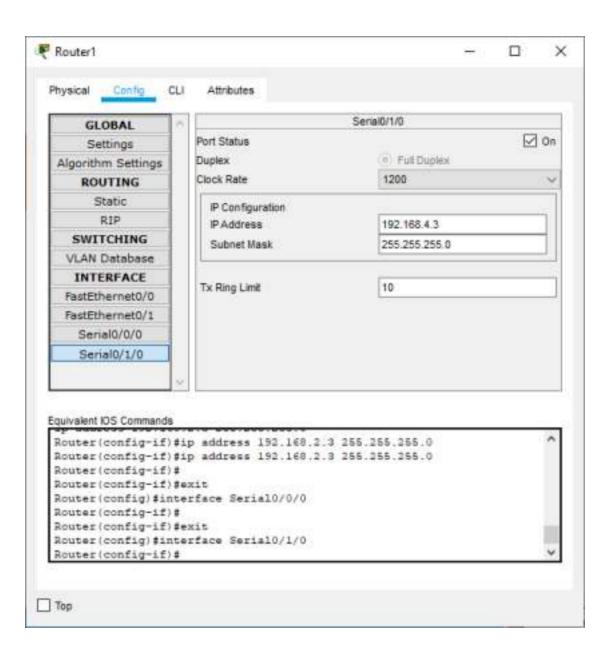
Step-4:- Configuration of Routers.



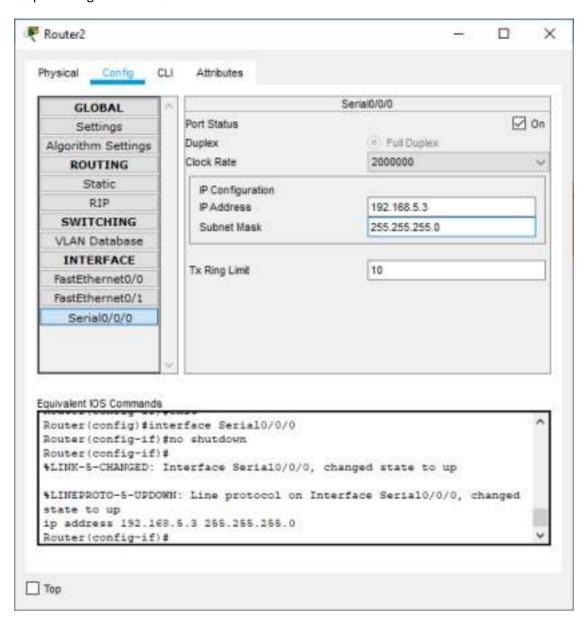


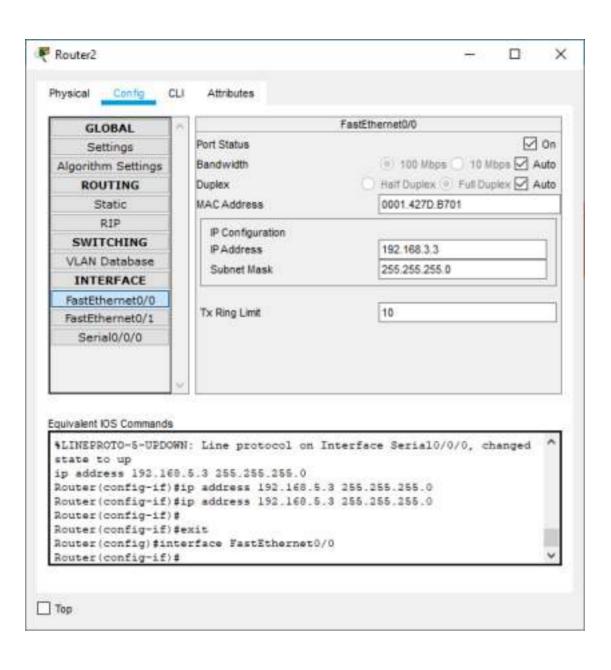


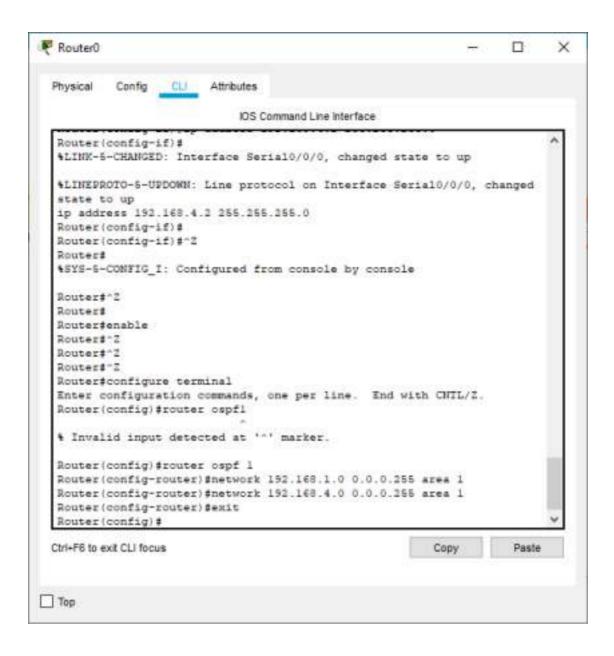




Step 6-Configuration of OSPF

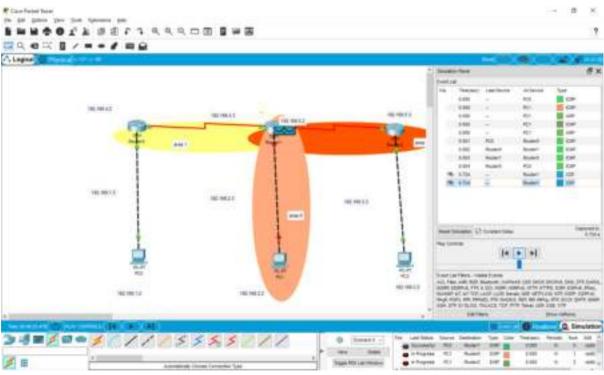










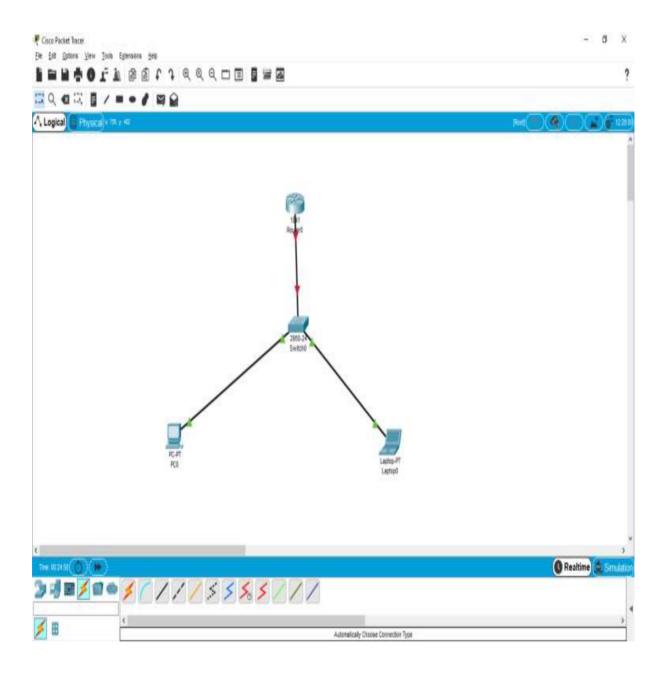


Practical no. 7

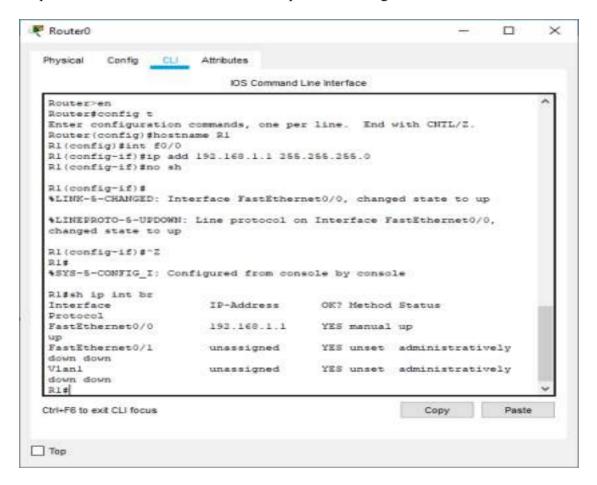
Aim:-Configure Dynamic host Configuration Protocol.

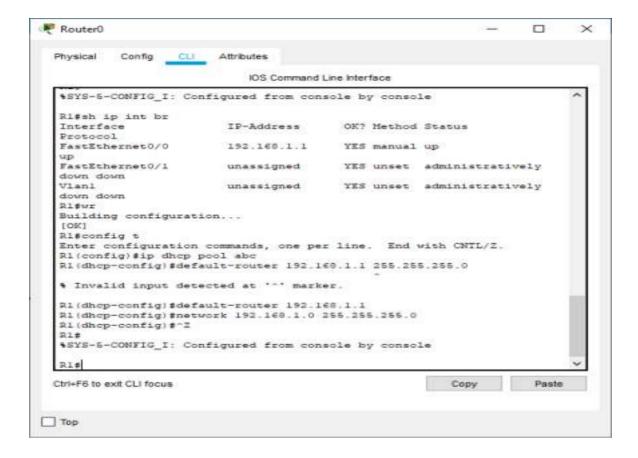
Requirements: - Cisco Packet Tracer.

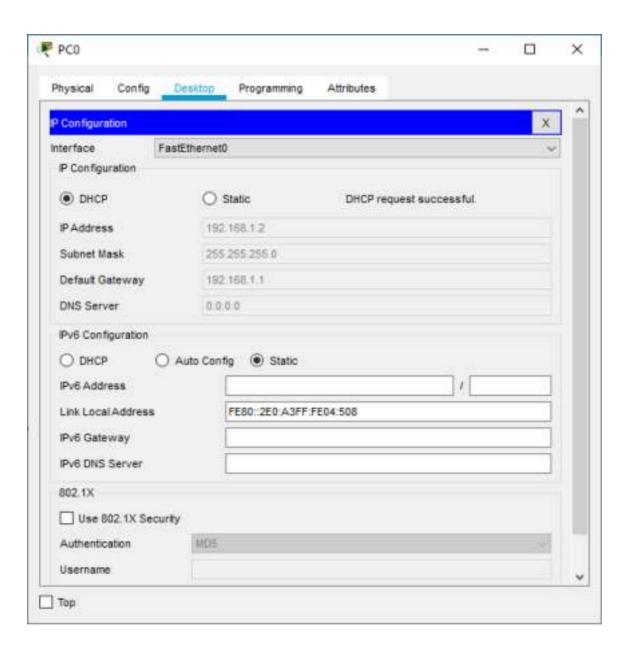
Step 1:- Drag and Drop all the devices. And connect it by using appropriate wire (Automatic choose connection) Use 1841 Router, Switch 2950-24.

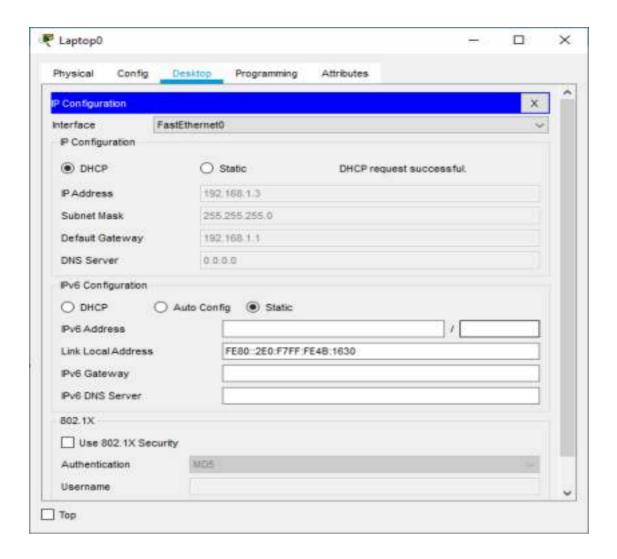


Step 2:- Go to CLI tab of router0 and complete the configuration.







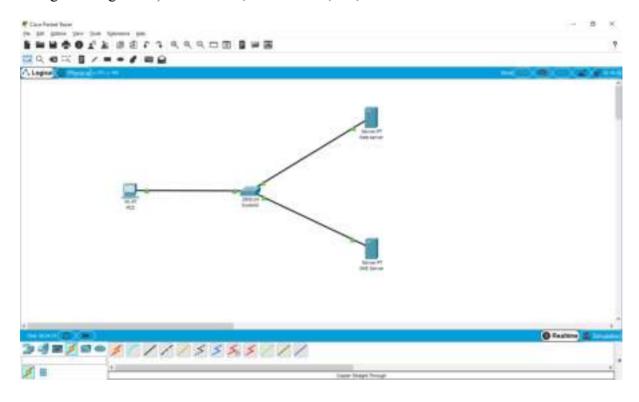


Practical no. 8

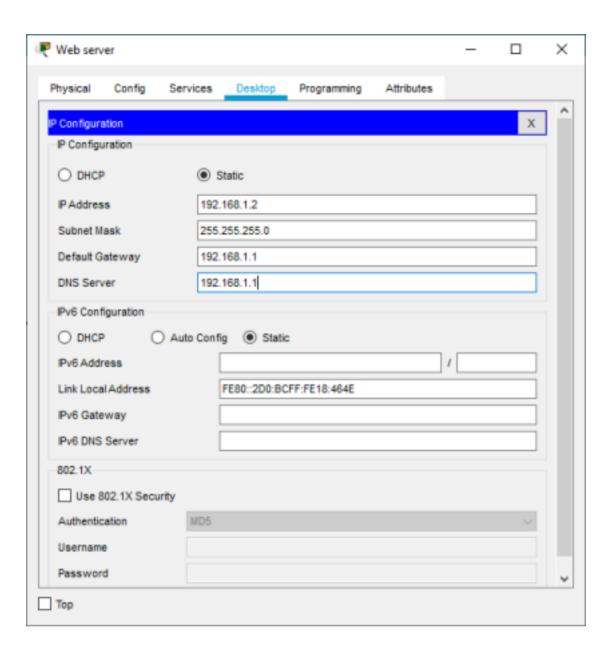
Aim:-Configure HTTP (Hypertext transfer Protocol.)

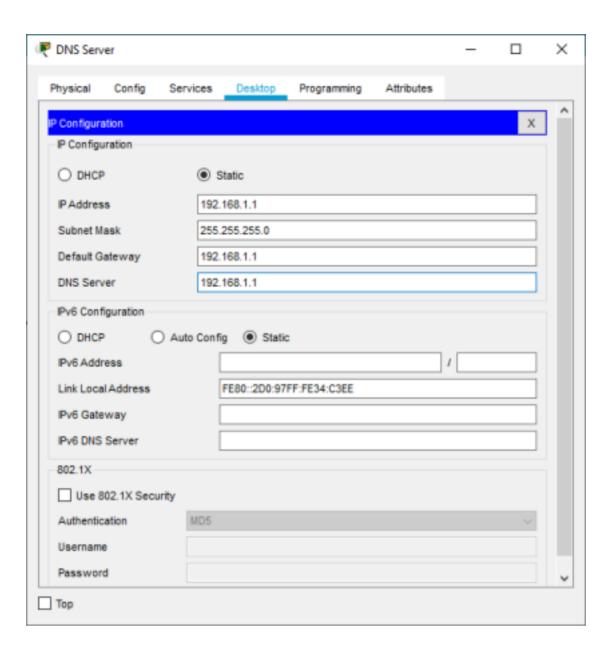
Requirements: - Cisco Packet Tracer.

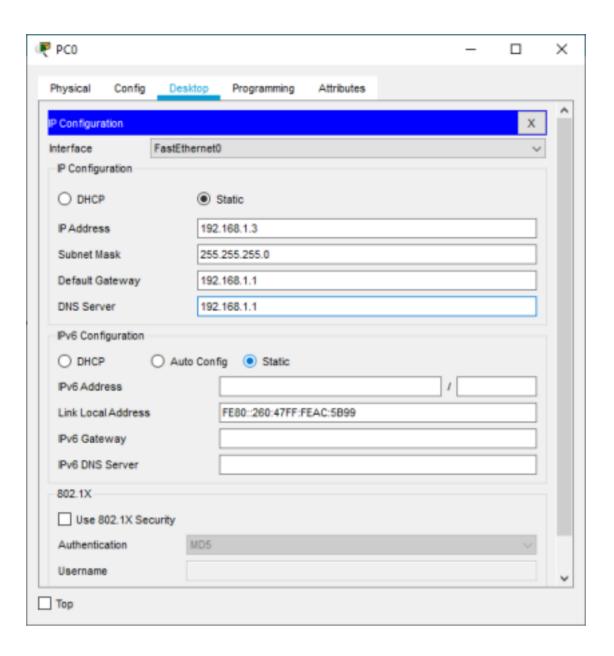
Step 1:- Drag and Drop all the devices. And connect it by using appropriate wire (Use Copper Straight through wire) Web Server, DNS Server, PC, Switch 2950-24.



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







Step 3:- On the DNS Service give name-Cisco & Address- 192.168.1.2 P DNS Server Services Desktop Programming Attributes SERVICES DNS HTTP O off DHCP DNS Service On DHCPv6 Resource Records TFTP Type A Record Name. DNS SYSLOG Address AAA NTP Add Save Remove EMAIL. Detail No. Name Type FTP IoT CIBCO A Record 192.168.1.2 VM Management Radius EAP DNS Cache

Top

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

Top

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.

