NAME-SAARA ANAND

REG NO-21BCE8156

SLOT-L23+L24

CN LAB ASSIGNMENT 3-

- 1. HOW TO CONFIGURE DNS SERVER WITH MULTIPLE WEB SITES USING THE SAME IP ADDRESS.
- 2. TOPOLOGY CREATION: STAR
- 3. ANALYSIS ON DNS SERVER.

CONFIGURING DNS SERVER WITH MULTIPLE WEBSITES USING SAME IP ADDRESS-

1)Place 3 PC's, a switch and a server.



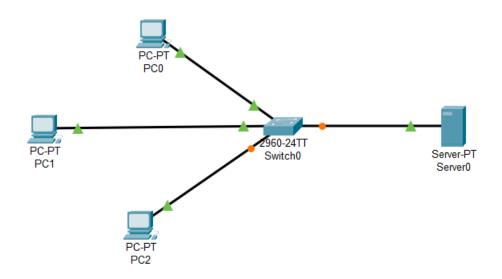




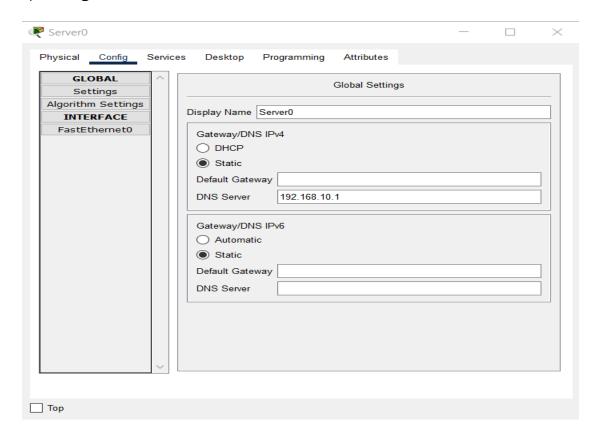




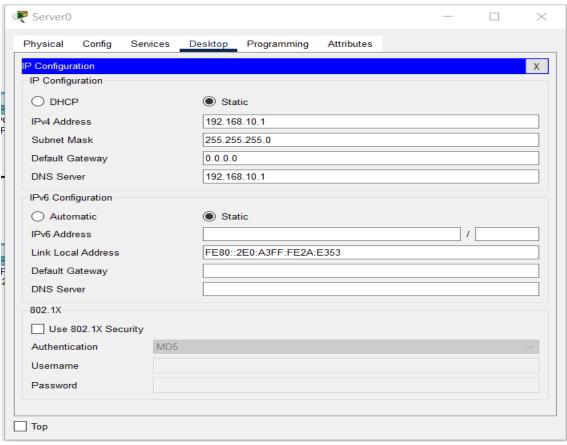
2)Connect them using copper straight wires.



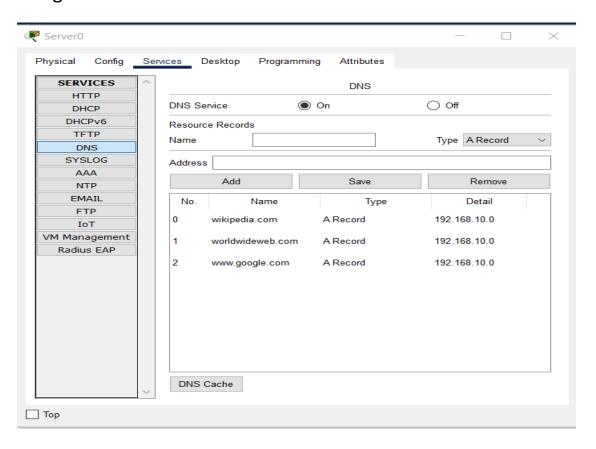
3)Configure the IP Address for the server.



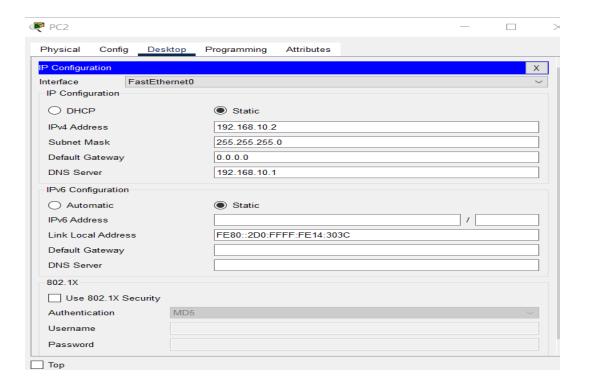


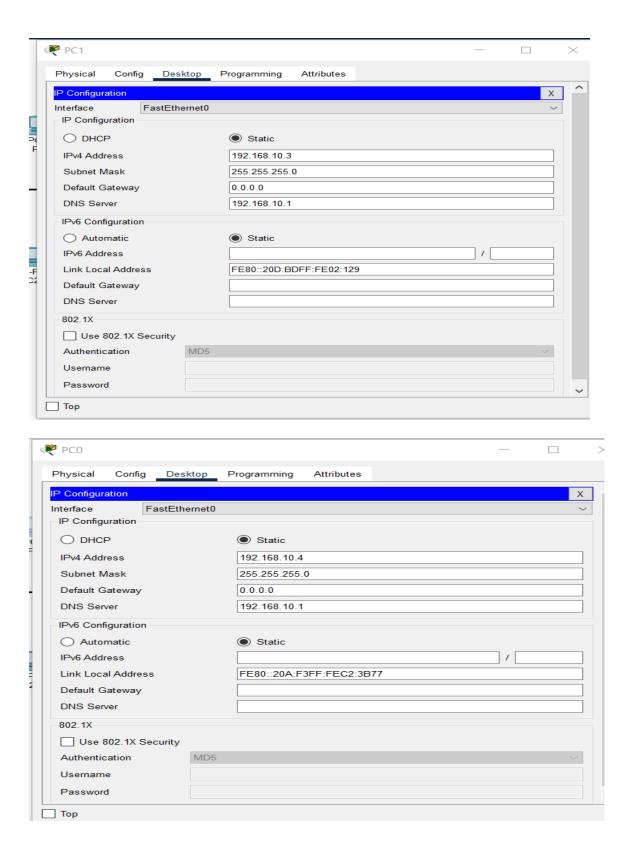


4)In the services → DNS, set DNS Service to ON and multiple websites using the same IP Address.

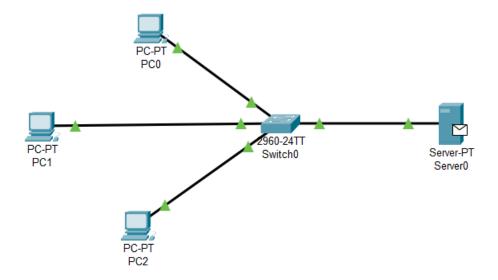


5)Configure all the 3 PC's with their own IP Address and the same DNS Address.

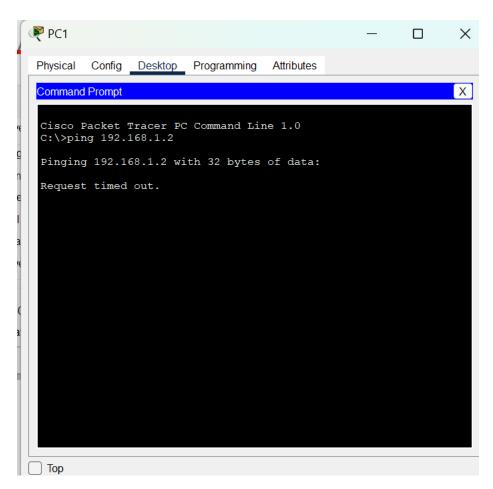




6)Add simple PDU from the server to each of the 3 PC's.



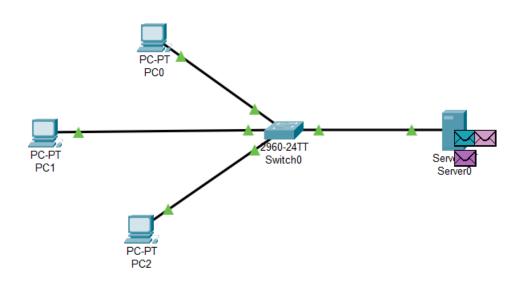
7) Use the Ping command.

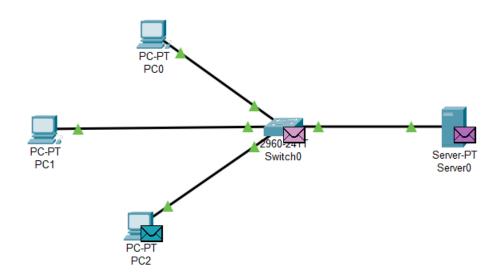


8) The simulation is successful.

Fire	Last Status	Source	Destination	Туре	Color	Time(sec)	Periodic	Num	Edit	Delete
•	Successful	Server0	PC2	ICMP		0.000	N	0	(edit)	(delete)
•	Successful	Server0	PC1	ICMP		0.000	N	1	(edit)	(delete)
•	Successful	Server0	PC0	ICMP		0.000	N	2	(edit)	(delete)

9)Run the simulation.

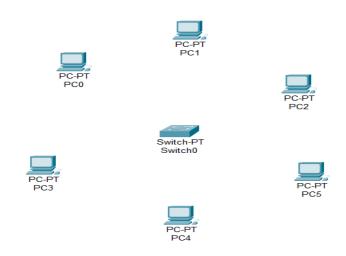


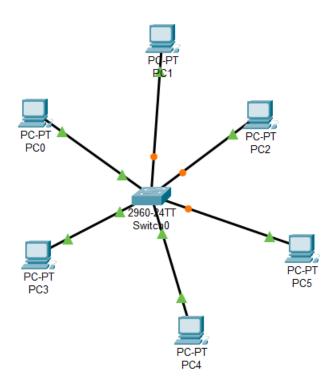


10) The DNS Server is setup with multiple websites using a single IP Address.

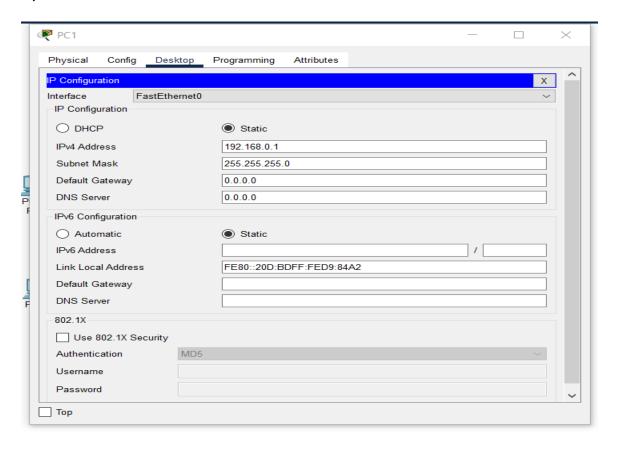
STAR TOPOLOGY CREATION-

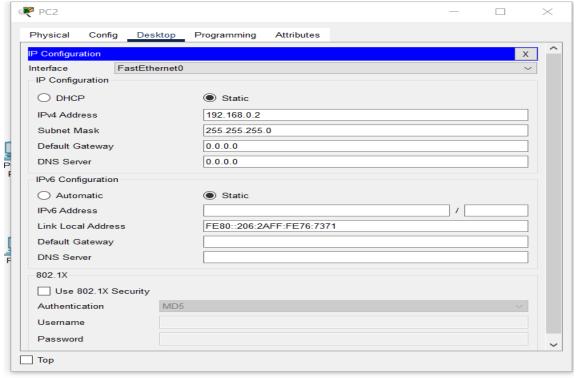
1) Take a switch and link it to six end devices.

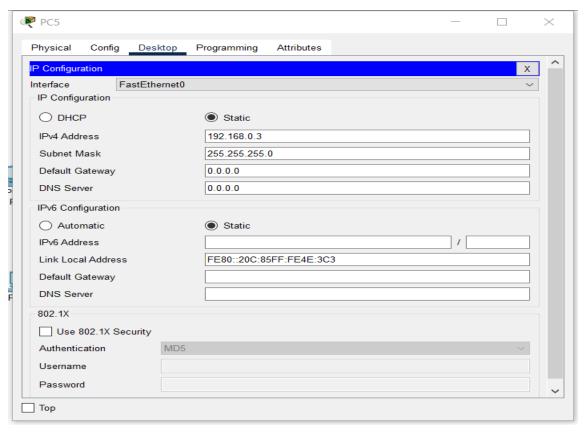


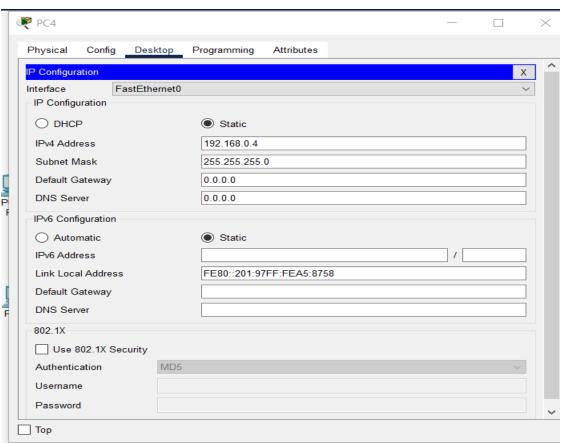


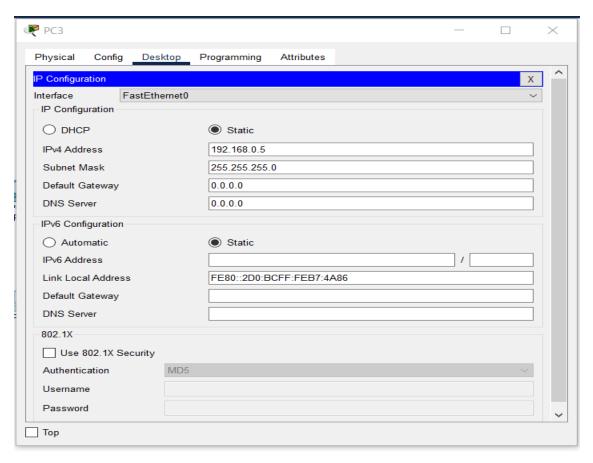
2)Provide IP Addresses for each of the PC's.

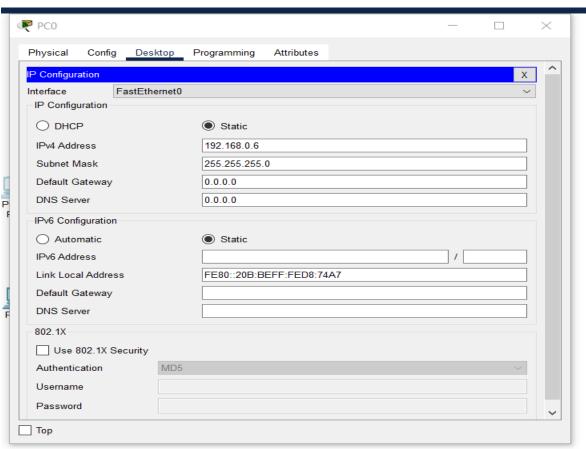




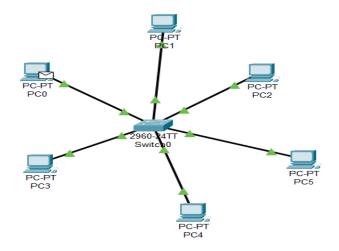


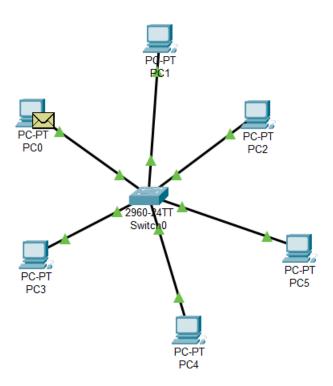




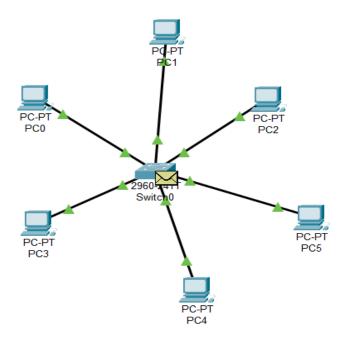


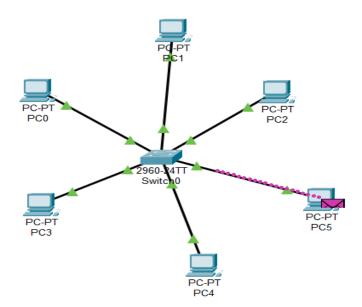
3)Transfer message from one PC to the other using simple PDU.



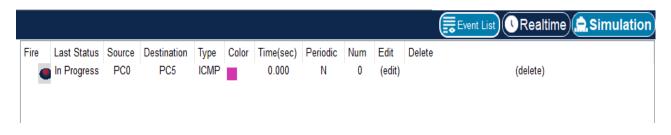


4)Turn on the simulation and check if it's valid.





5) Check the simulation table list to find if it's valid and successful.



This way, the star topology is successfully created using Cisco Packet Tracer.

ANALYSIS ON DNS SERVER-

DNS stands for a **Domain Name System**.

DNS resolves names to numbers, to be more specific it resolves domain names to IP addresses. So if you type in a web address in your web browser, DNS will resolve the name to a number because the only thing computers know are numbers.

A Domain Name Service(DNS) server resolves host names into IP addresses. Although we can access a network host using its IP address, DNS makes it easier by allowing us use domain names which are easier to remember. For example its much easier to access google website by typing http://www.google.com as compared to typing http://208.117.229.214. In either case, you'll access google website, but using domain name is obviously easier.

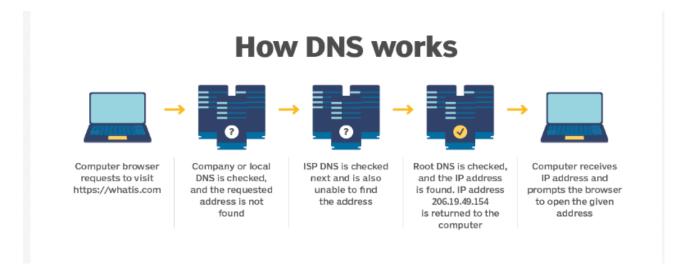
Now, before any host can use a DNS service, we must configure a DNS server first. For example, when you type the URL http://www.google.com in your browser, the host will query the DNS server for the IP address of http://www.google.com. The DNS server will resolve http://www.google.com into an IP address then answer back the host with the IP address.

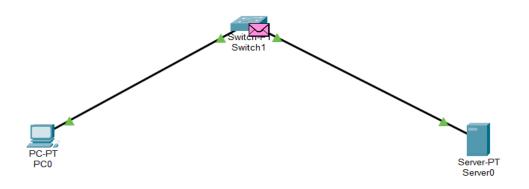
An HTTP server is a web server. It stores web resources that can be accessed by a web client. Your PC's browser(a web client) requests for web resources from a web server over the internet. Web resources are files such as text and images that the server will give to the client on request.

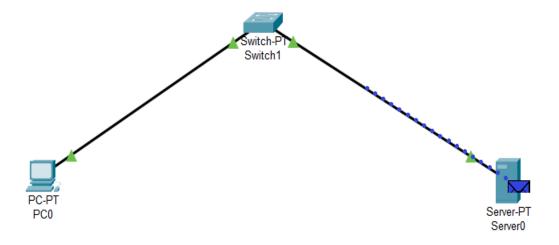
DNS servers convert URLs and domain names into IP addresses that computers can understand and use. They translate what a user types into a browser into something the machine can use to find a

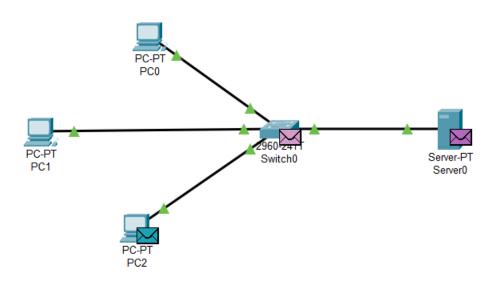
webpage. This process of translation and lookup is called *DNS* resolution.

The domain name system (DNS) is a naming database in which internet <u>domain</u> names are located and translated into <u>Internet Protocol (IP) addresses</u>. The domain name system maps the name people use to locate a website to the IP address that a computer uses to locate that website.









Thank you!