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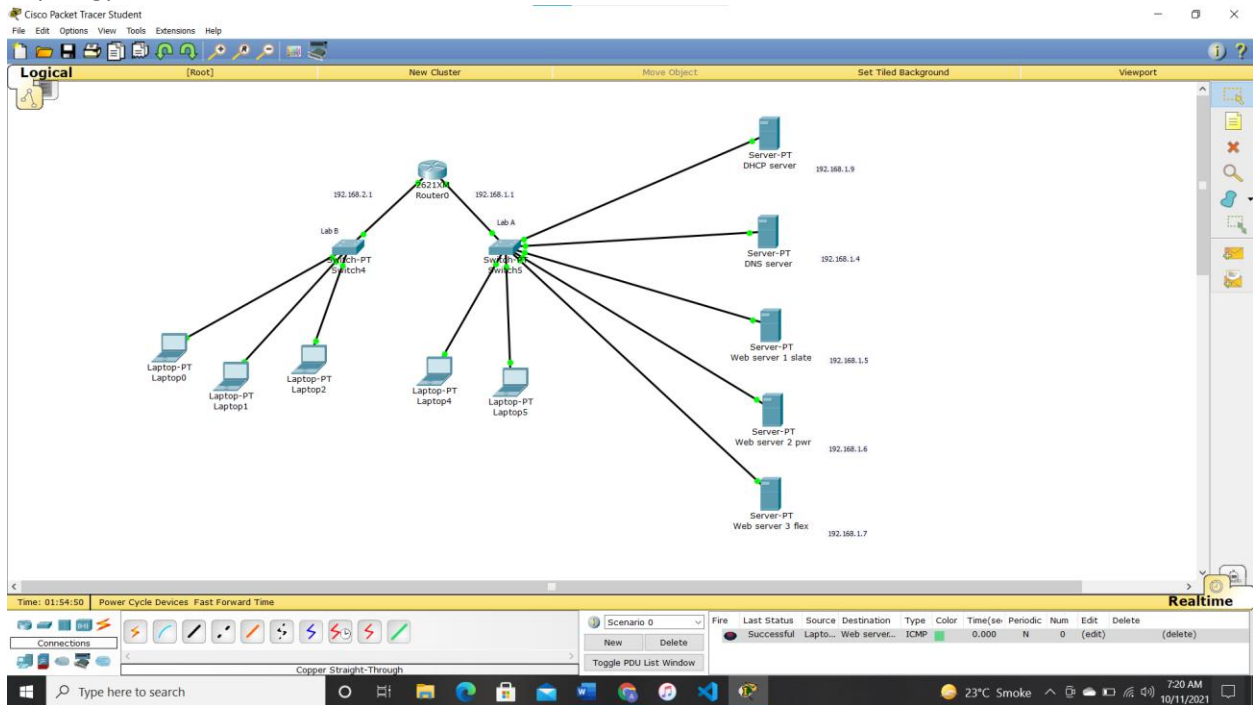
# COMPUTER NETWORKS LAB

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ROLL NO: 19P0012  
NAME: AITZAZ TAHIR CH  
SECTION: BS(CS)-5B  
LAB NO: 4 HOMEWORK



## Topology



## Setting up router configuration using CLI.

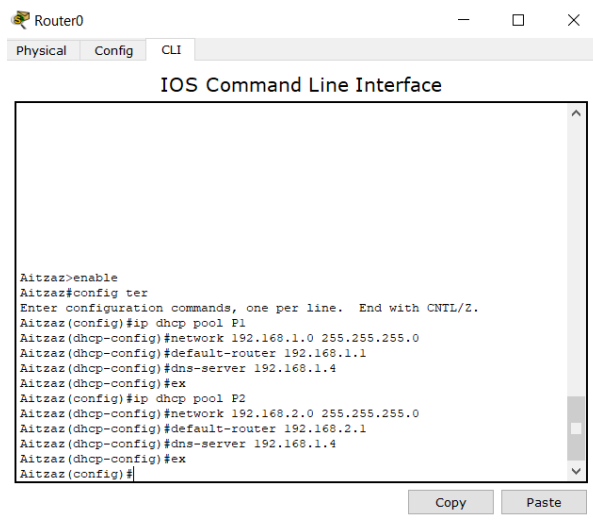
```
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Aitzaz
Aitzaz(config)#interface f0/0
Aitzaz(config-if)#ip address 192.168.2.1 255.255.255.0
Aitzaz(config-if)#no shutdown

Aitzaz(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

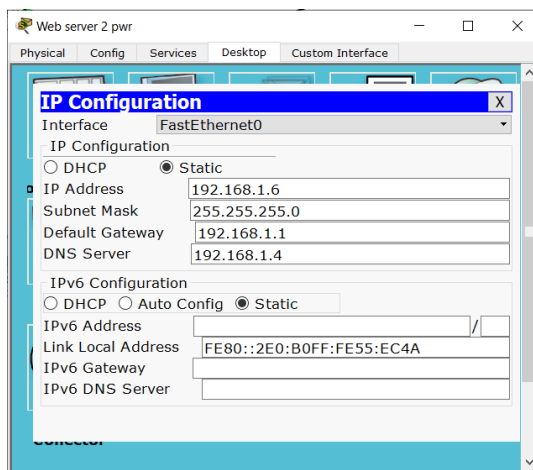
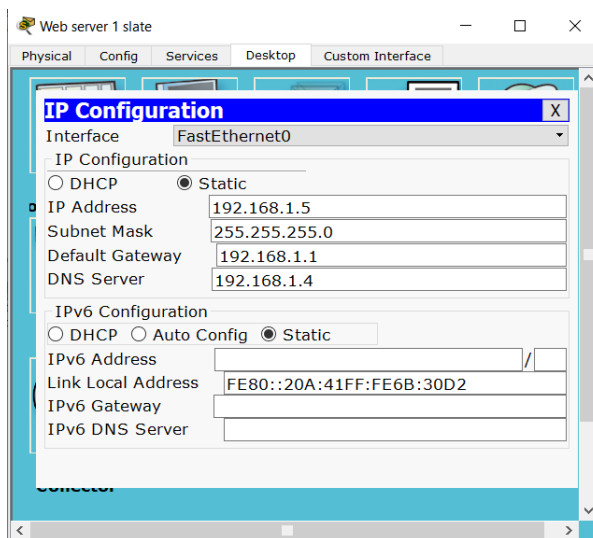
Aitzaz(config-if)#interface f0/1
Aitzaz(config-if)#ip address 192.168.1.1 255.255.255.0
Aitzaz(config-if)#no shutdown

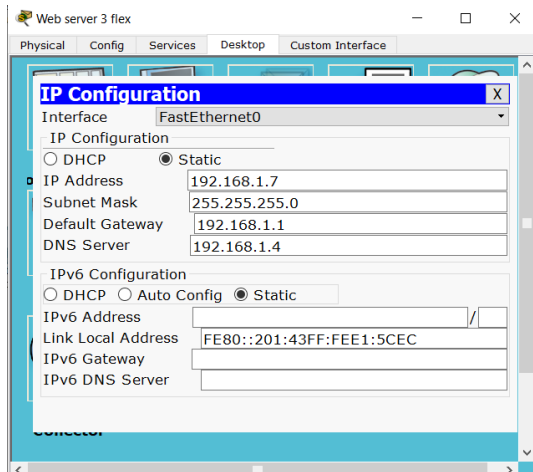
Aitzaz(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Aitzaz(config-if)#
```

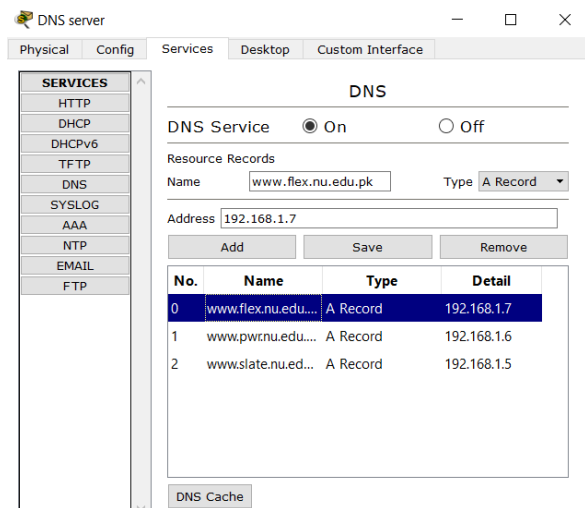
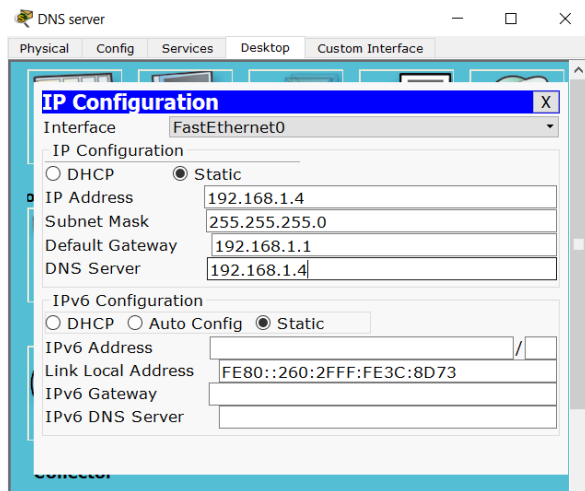


Setting up Web Server for each website.

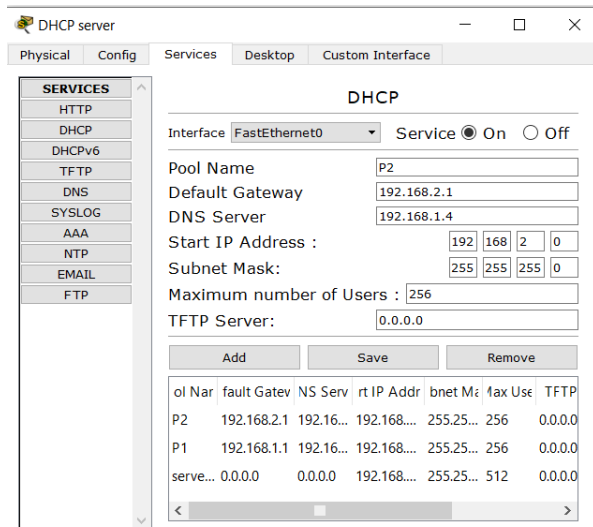
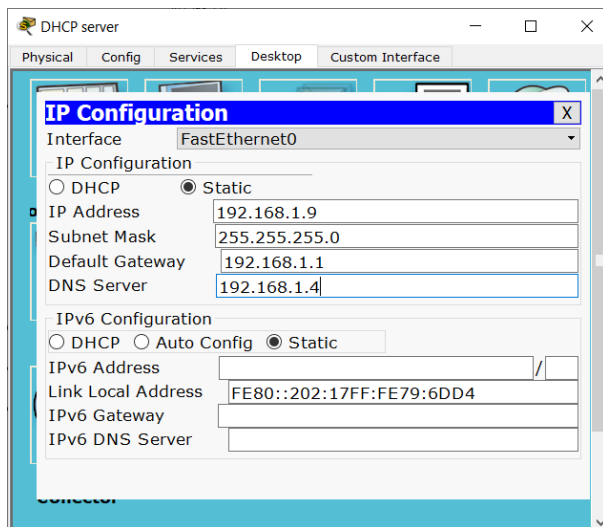




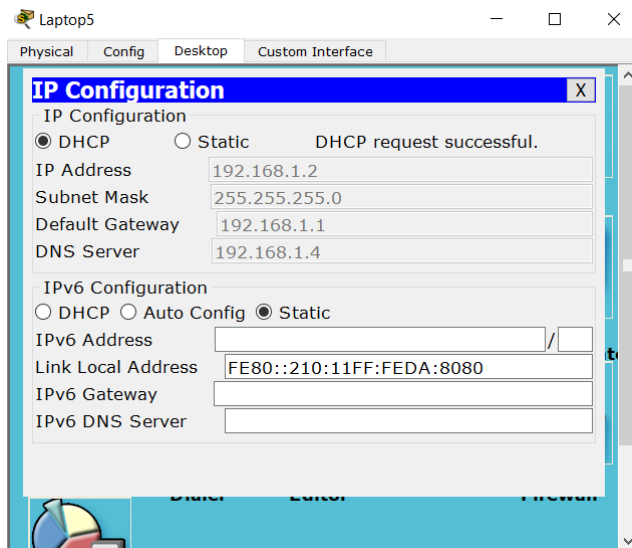
Configuration of DNS Server.



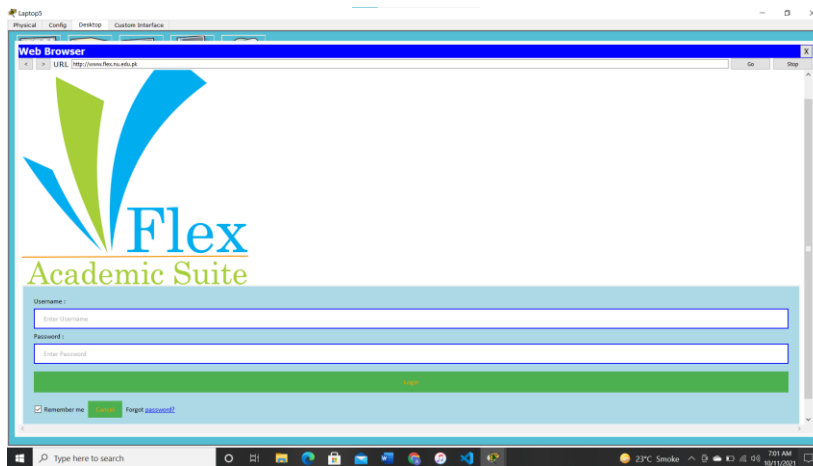
Configuration of DHCP Server.



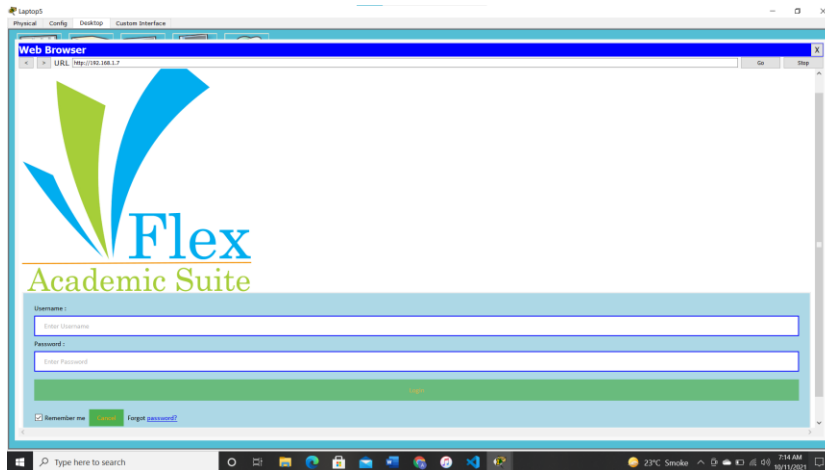
Did same for All laptops



Searching web page through url



Searching web page through ip address



**When the first time you hit an IP address from a PC , Is this PC will directly send request to web server or to DNS Server?**

This Pc will directly send request to web server.

**When the first time you hit an URL from a PC , Is this PC will directly send request to web server or to DNS Server? Observer same thing for 2nd and 3rd time.**

At first time Pc will send request to DNS server,from there it will get the ip address of web server and goes there but for 2<sup>nd</sup> and 3<sup>rd</sup> time it will directly go to the ip address because now it has ip address of that web server in its cache.