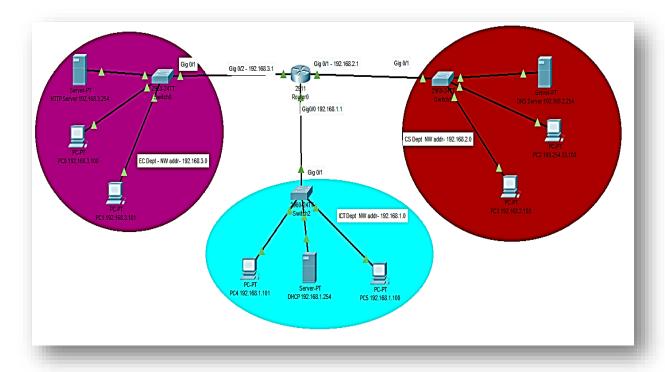
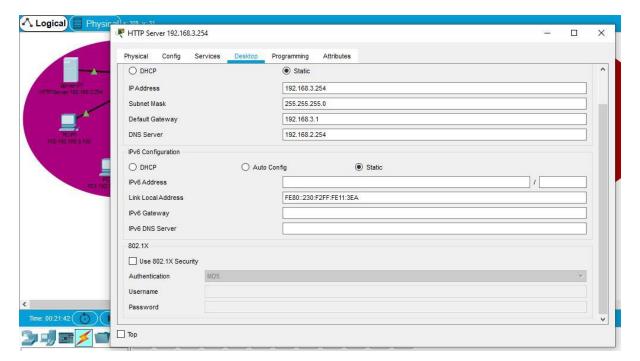
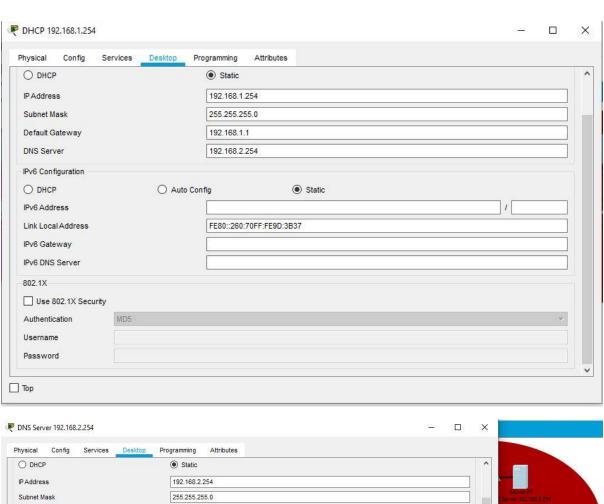
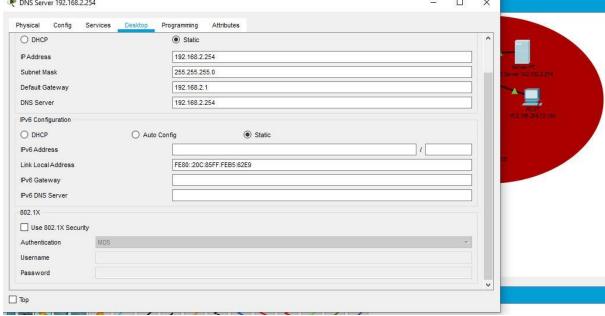
Scenario 12: A collage comprises of three branches (EC, CS, ICT) having their own local Area Network connected by a router. EC Department having a Web Server hosting the college website, CS Department is having a DNS Server used to resolve the URL to IP address and ICT Department is having a DHCP Server perform automatic IP address assignment from the configured pool of IP address.



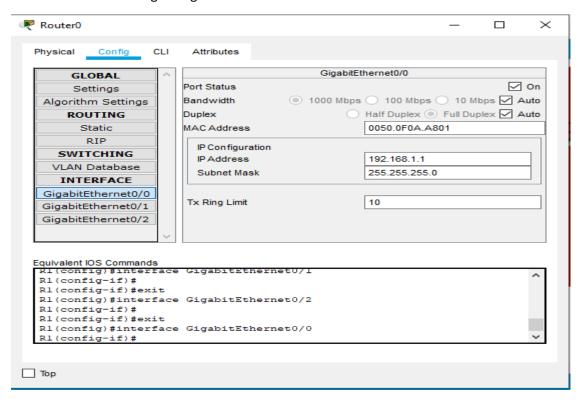
 Note: Allocate the specified IP addresses to DHCP, DNS, Web serves as shown in the diagram below



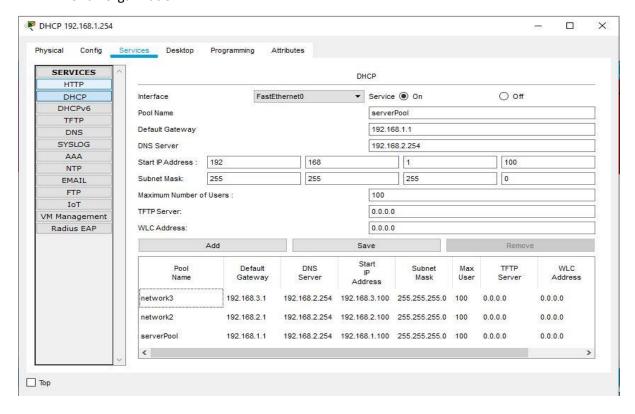




• Do the following configuration on router.



 Enabling DHCP Service on DHCP server to allocate IP address to systems on different network for an organization

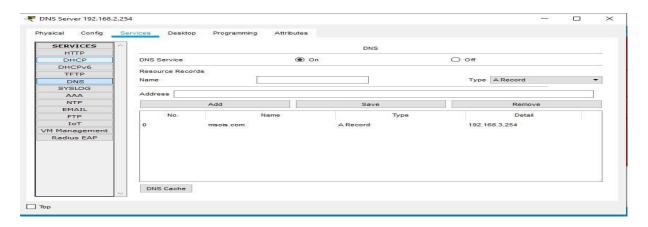


## Go to Router CLI and do the Following:

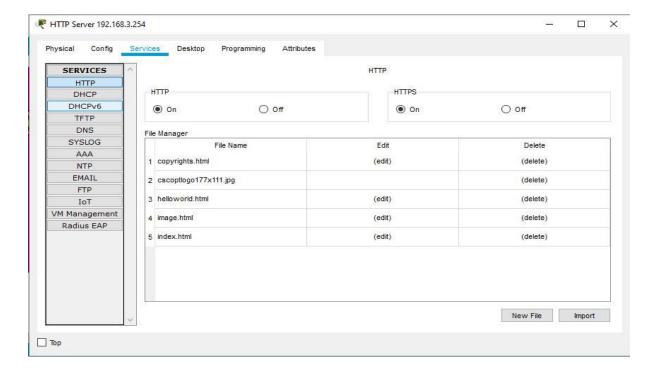
• Router DHCP port forwarding (helper)

en
conf t
interface gigabitEthernet 0/1
ip helper-address 192.168.1.254
exit
interface gigabitEthernet 0/2
ip helper-address 192.168.1.254

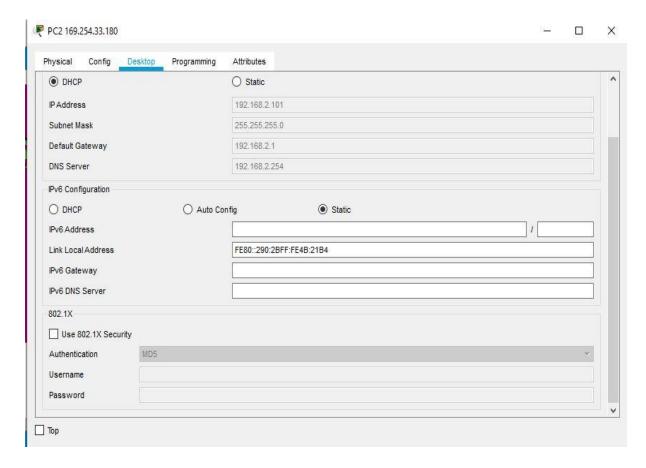
Enabling DNS Service on DNS server to resolve the domain name of web/HTTP server.



Enabling HTTP/HTTPS Service on Web server to deliver web pages to end user



## To illustrate working of DHCP server do the following on any PC:



Now IP should be allocated with the configured IP Pool.

## To illustrate working of DNS server do the following on any PC:

