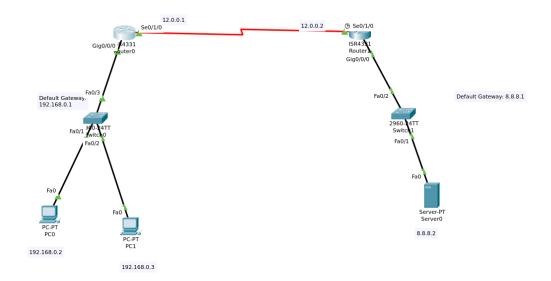
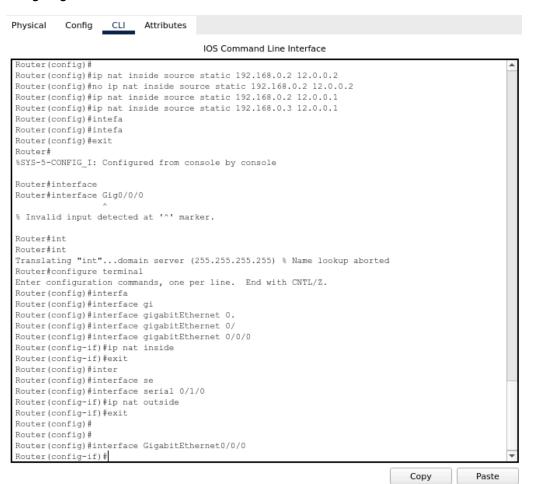
Q7) Simulating a NAT in Cisco Packet Tracer:

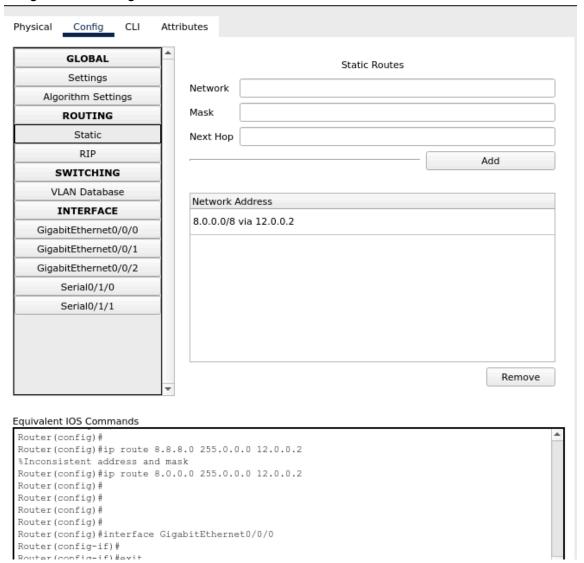


Here, the Private IP of the computers in Private network are 192.168.0.x Public IP of the server is 8.8.8.2

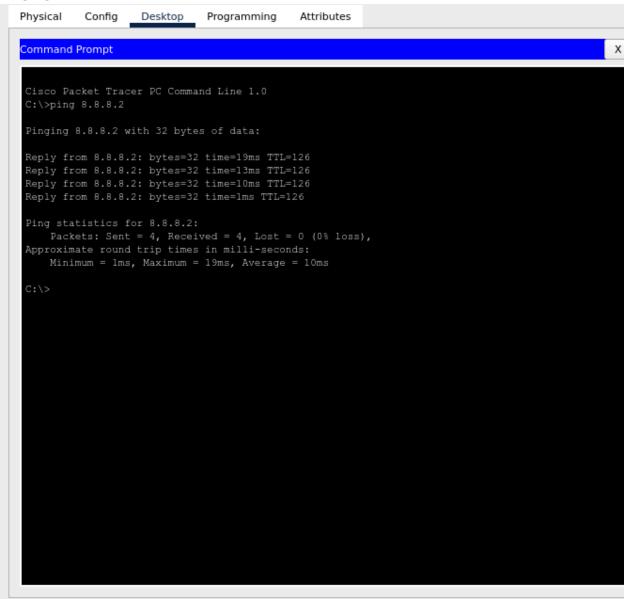
Assigning Router0 as NAT:



Assign Static routing in Router0:



Pinging Public Server:

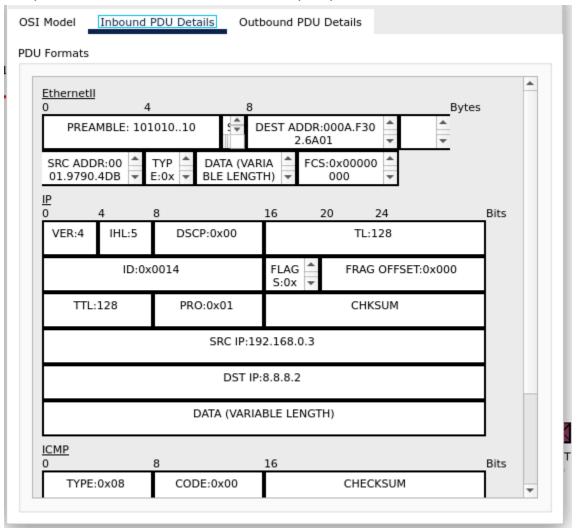


Accessing Public IP in WebBrowser:



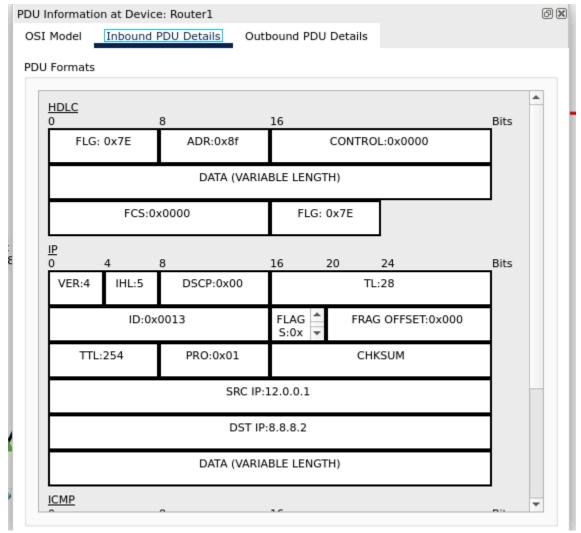
Analysis of Packet Frames:

1) Packet from PC -> Switch -> Router(NAT)



When the packet reaches the NAT, we can see that the Source IP is 192.168.0.3, which is the private IP address of the system, and destination address is 8.8.8.2.

2) Packet from Router0 (NAT) -> Router1 (Public Server Router):



As we can see, the source IP is now 12.0.0.1, which means that the NAT has converted it from Private IP to Public IP