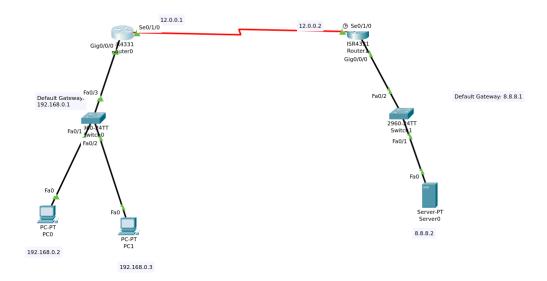
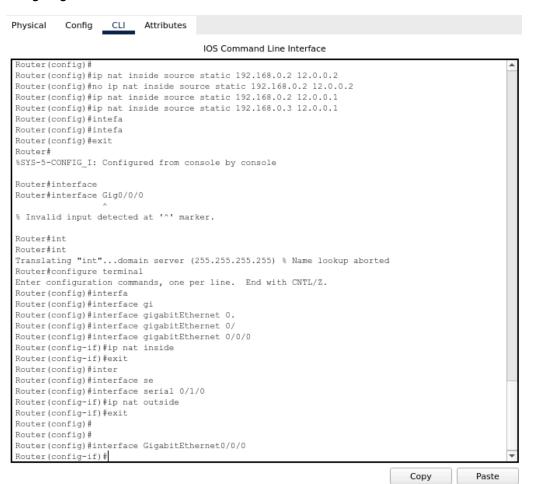
### Q5) Simulating a NAT in Cisco Packet Tracer:

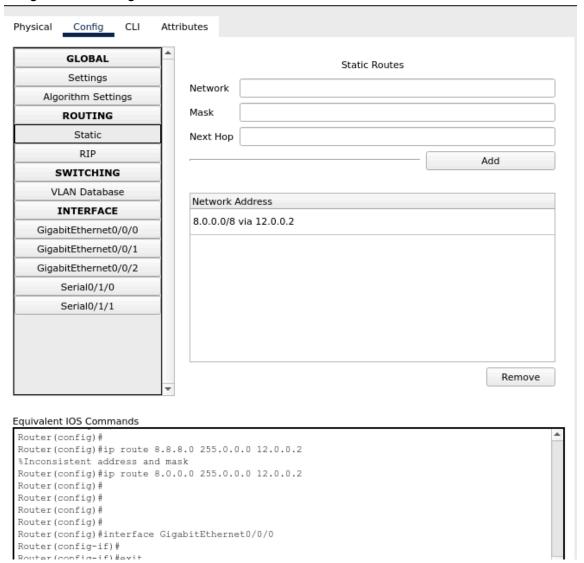


Here, the Private IP of the computers in Private network are 192.168.0.x Public IP of the server is 8.8.8.2

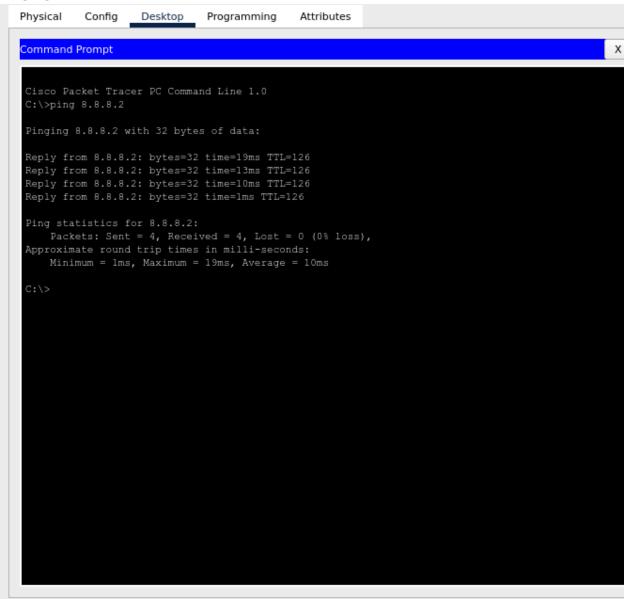
#### Assigning Router0 as NAT:



## Assign Static routing in Router0:



# **Pinging Public Server:**

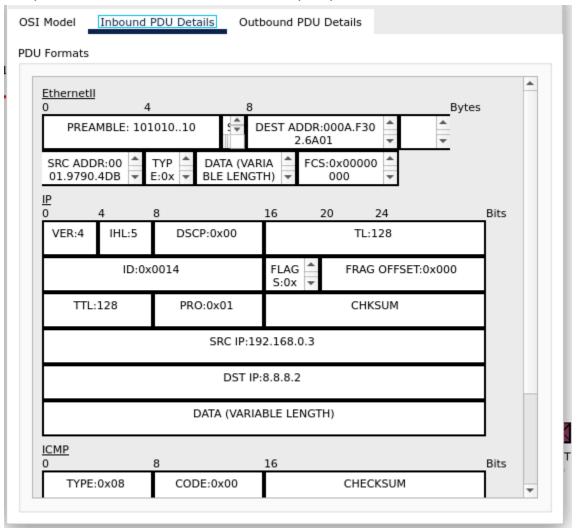


# **Accessing Public IP in WebBrowser:**



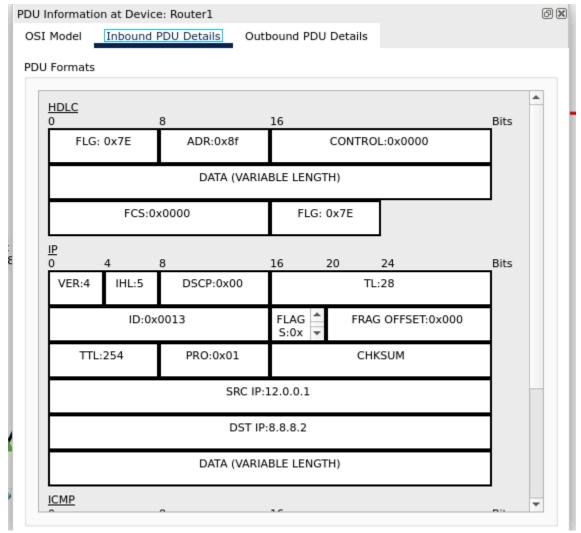
### **Analysis of Packet Frames:**

#### 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