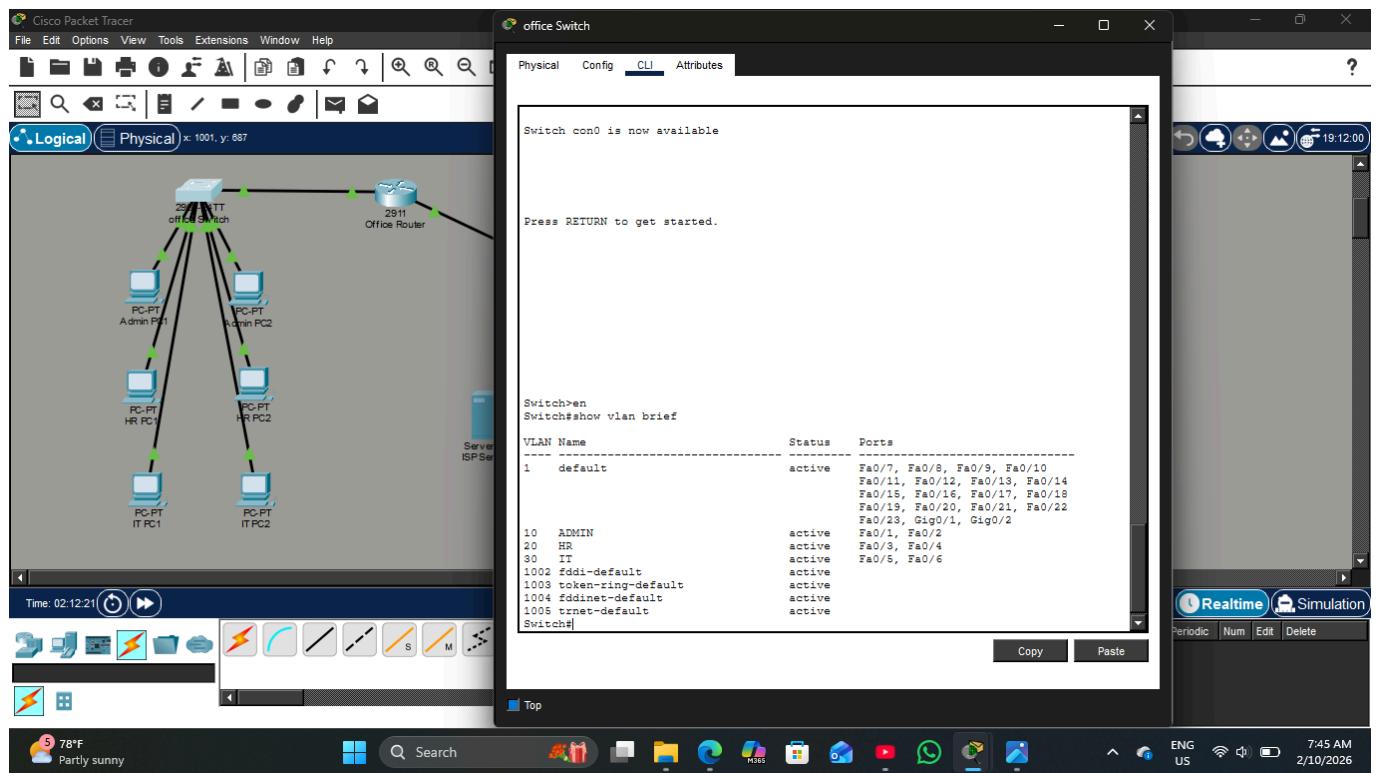
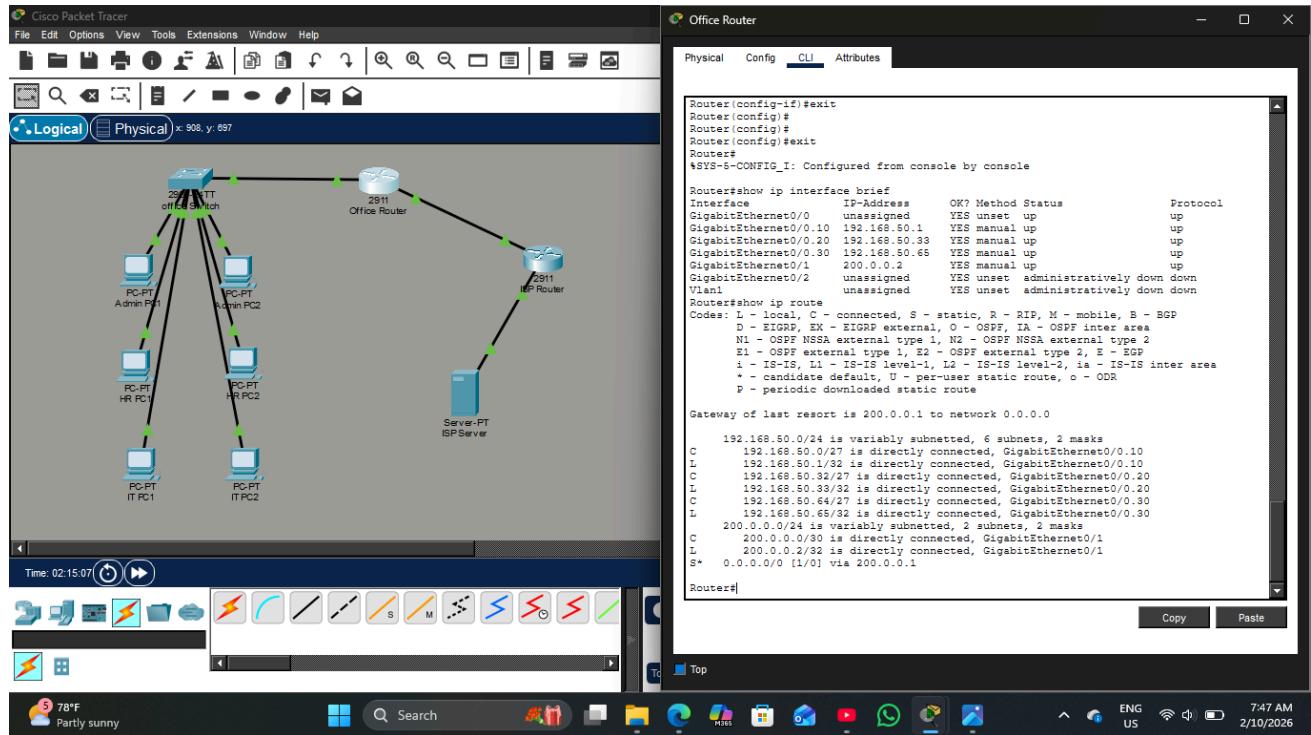


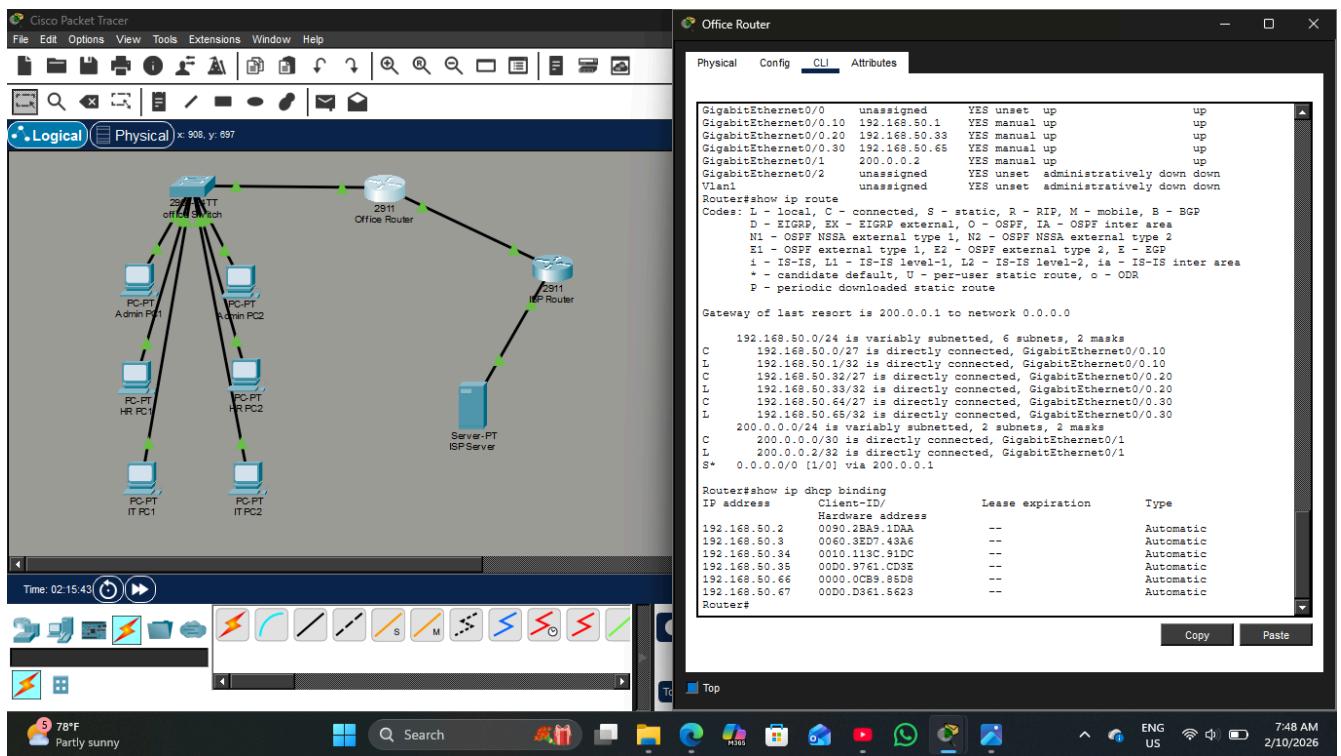
## show vlan brief on office switch



## show ip route on office router



## Show ip dhcp binding



## show ip nat translations

The screenshot shows a Windows desktop environment. In the center is a terminal window titled "Office Router" with the tab "CLI" selected. The window displays the output of the command "show ip nat translations". The output shows a table with columns: IP address, Client-ID/, Hardware address, Lease expiration, and Type. The table lists several entries, all marked as "Automatic". Below this, the command "Router#show ip nat translations" is repeated. To the left of the terminal window, there is a sidebar with sections for "Step 8: Test & Verify" and "Reflection". The "Step 8: Test & Verify" section contains a bulleted list of tasks related to testing and verifying network configurations. The "Reflection" section has one bullet point: "Why is it useful to separate departments". To the right of the terminal window is a Cisco Packet Tracer simulation window showing a network topology. At the bottom of the screen is a taskbar with various icons, including a weather icon showing "Partly sunny" at 78°F, a search bar, and system status indicators like battery level and signal strength.

```
L_ 200.0.0.2/32 is directly connected, GigabitEthernet0/1
S* 0.0.0.0/0 (1/0) via 200.0.0.1

Router#show ip dhcp binding
IP address Client-ID/ Hardware address Lease expiration Type
192.168.50.2 0090.2BA9.1DA8 -- Automatic
192.168.50.3 000E.3B77.43A6 -- Automatic
192.168.50.34 0010.1A5C.0000 -- Automatic
192.168.50.35 00D0.9761.CD9E -- Automatic
192.168.50.66 0000.0CB9.85DB -- Automatic
192.168.50.67 00D0.D861.5623 -- Automatic
Router#show ip nat translations
Router#show ip nat translations
Router#
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router#interface GigabitEthernet0/1
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0
Router(config-if)#exit
Router(config-if)#exit
Router(config-if)#shutdown
Router(config-if)#^
LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed state to down
Router(config-if)#exit
Router(config)#show ip nat translations
^
Invalid input detected at '^' marker.
Router(config)#exit
Router#
#SYN-5-CONFIG_I: Configured from console by console
Router#show ip nat translations
Router#
```

show ip nat translations was unsuccessful

### **Short note**

I built a multi-department network using VLANs for segmentation and Router-on-a-Stick to enable inter-VLAN communication. I automated host addressing by configuring DHCP pools and implemented NAT Overload (PAT) to provide shared internet access through a single public IP. This can be verified by pinging the server.