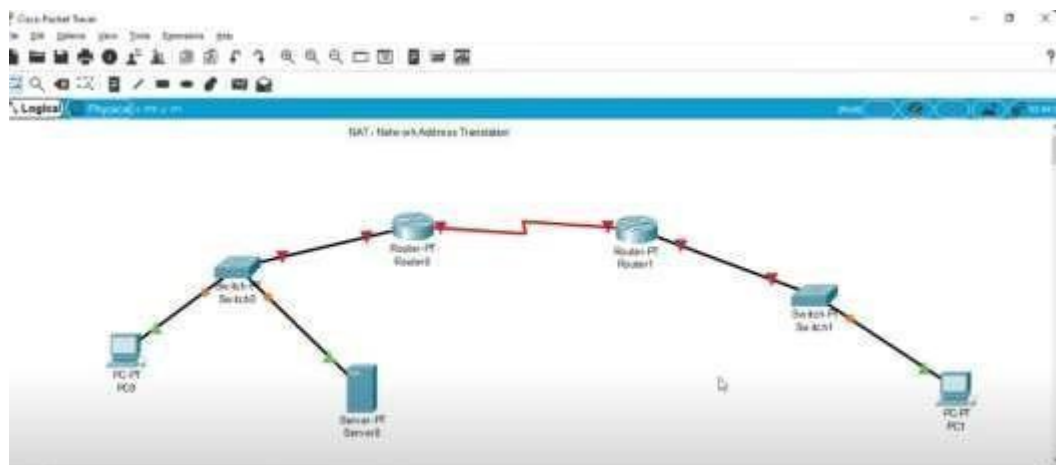


EX NO: 6	IMPLEMENTING NAT
DATE: 14/09/2023	

AIM: To implement NAT using Cisco Packet Tracer.

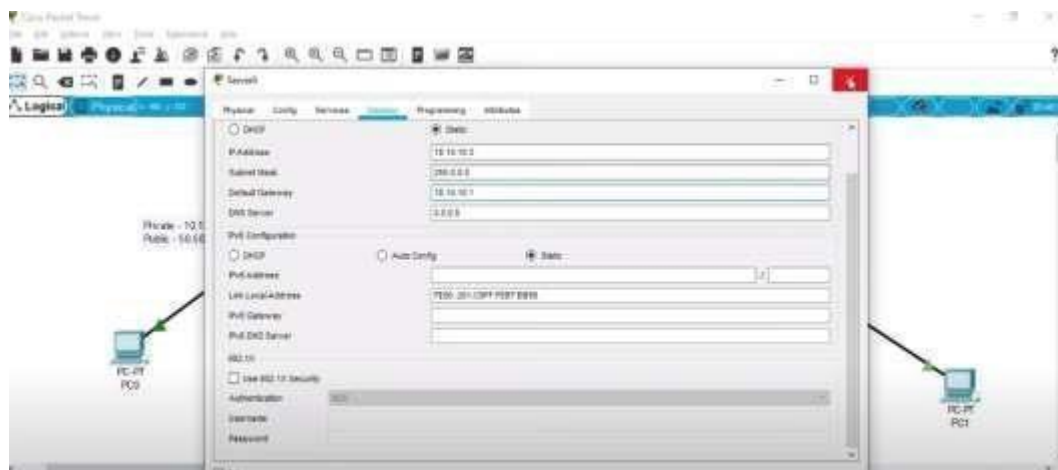
PROCEDURE:

Step 1: Select routers, switches, PC and servers and connect with zigzag wire.

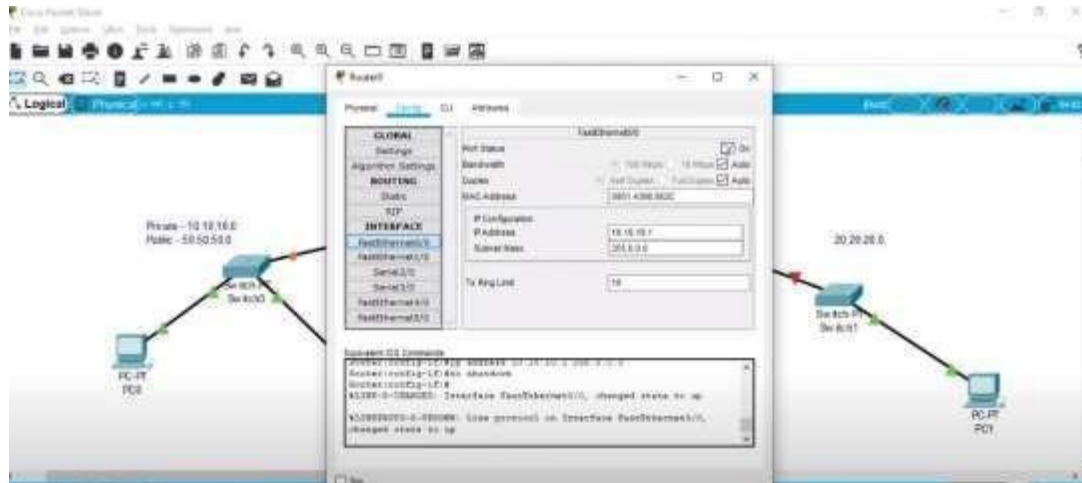


Step 2: Make three different network with different public and private address. **Step**

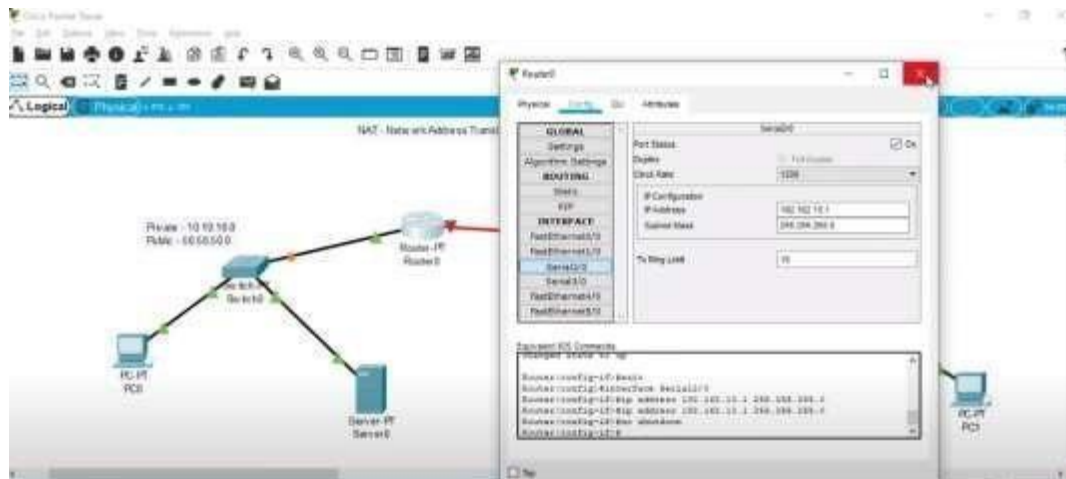
3: Now click on pe 0 and click on desktop, go to ip configuration and enter ip Address, subnet mask and default gateway.



Step 4: Do same way as step 3 for server and PC1.



Step 5: Now click on router 0 and go to config and click Fast Ethernet 0/0, enter ip Address and subnet mask and check on in top right corner for network 1 i.e. 10.10.10.0.

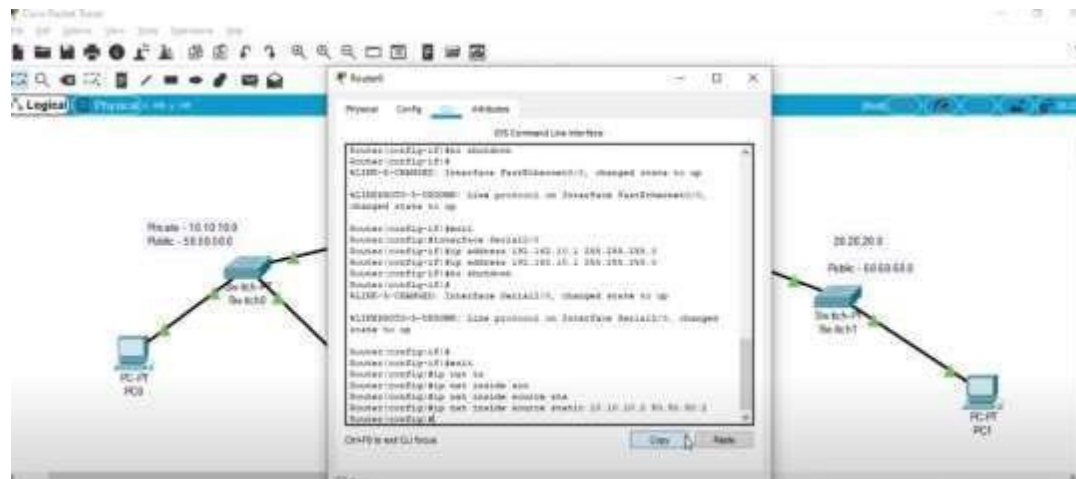


Step 6: Again in config router, go to serial 2/0, now enter the ip address and subnet Mask of network 2 i.e. 192.162.10.0 and click on ON check box in topbar.

Step 7: Do same way as step5 and step 6 for router 1 also for both network I.e 20.20.20.0 and 192.162.10.0.

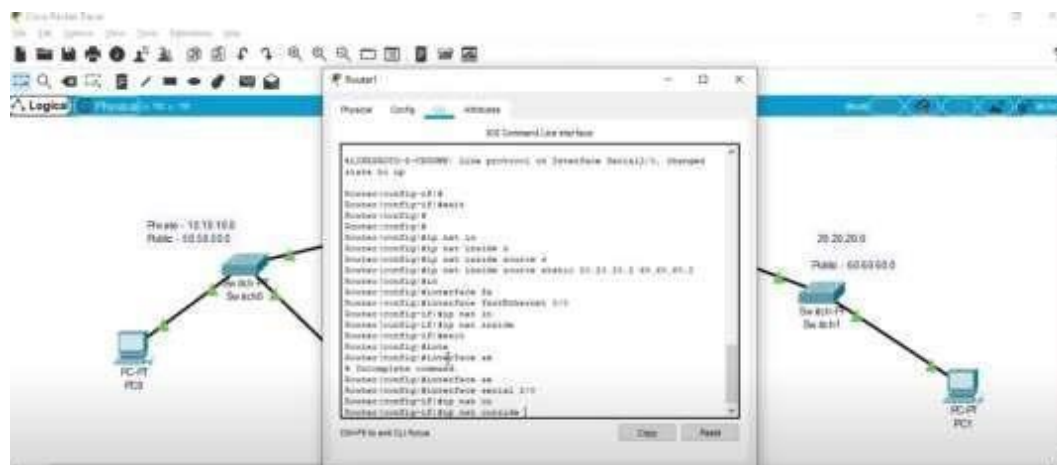


Step 8: Click on router 0 and go to CLI ,enter the following commands.



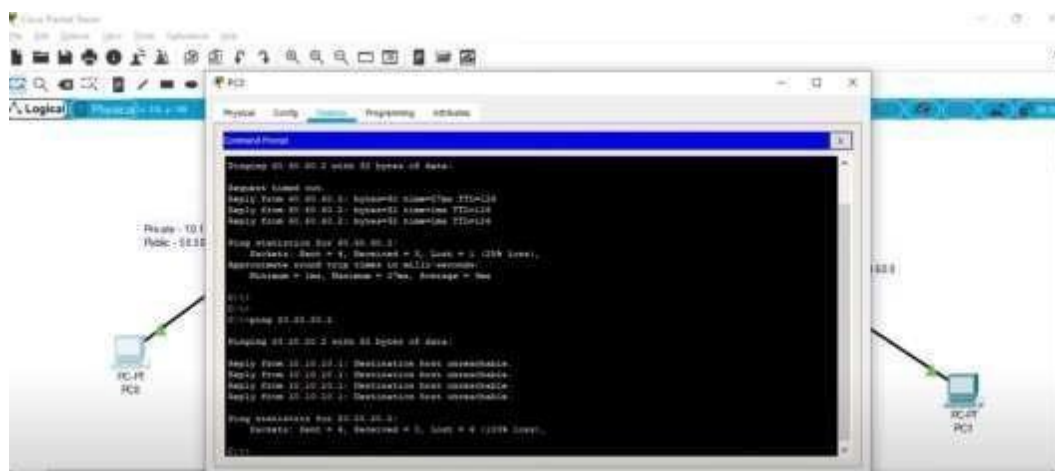
Step 9: Give static router information for router O and router I as

Step 10: To see the ip route of router 1 ,write the following command and you Will able to see the connection of router directly or via.



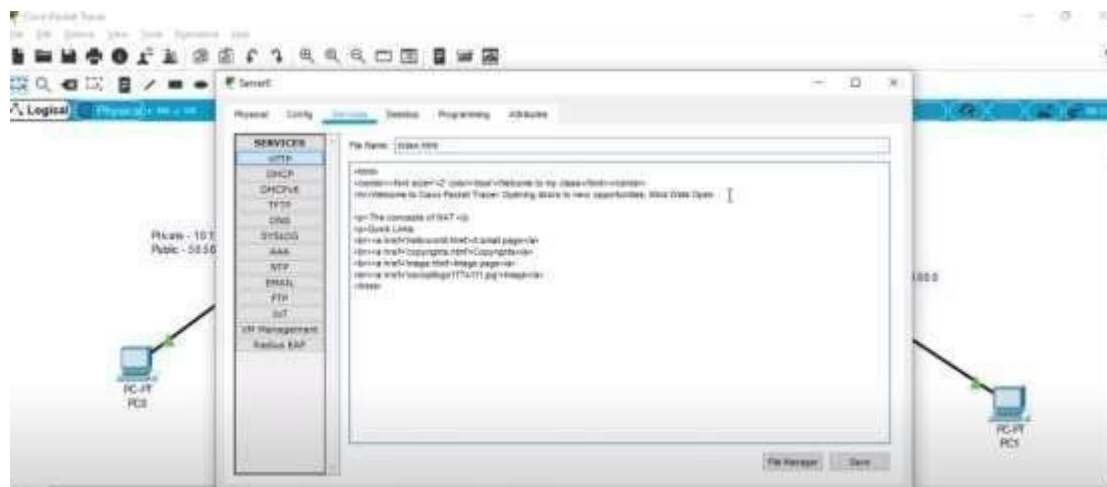
Step 11: Now if we pass the packet from pc 0 to pc 1 it will fail .So for that clickOn pc 0 and go to command prompt and enter the command ping 60.60.60.2 and

You will see that its pinged but if we ping private address i.e 20.20.20.2,it ll fail And show destination is unreachable. In that way private ip address will be hidden And only public IP address is accessible



Step 12: Click on server and then go to service and click on http and edit index file

And save it.



Step 13: Click on pe 1 and go to web browser and enter the public ip address of Network 1 as 50.50.50.3 and click on Go. After this you will see the index page of Network 1. But if we enter the private ip address of network 10.10.10.3, it will not

show address. In such any way since no one can private enter network the private address, they can only access public address.



RESULT: Implemented NAT successfully.