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COURSE-MCA2-A
SECTION – A
UNI. ROLL NO. – 2001094
SUBJECT – COMPUTER NETWORKS LAB
SUB CODE – TMC 203

Q:1. There is an organization A with multiple departments. Design a network for the HR department and the size of the department is 10 users. Also, show the communication between user number 1 and user number 5 of the network. (7 Marks)

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Ans-1 **Problem Statement** – Design a network for HR department that has 10 users. and show communication between user 1 and 5 of network.

Objective – To understand connection between PC's.

Description –

Step1 :- Take 10 PC's from End devices.

Step2 :- Take a switch and a Router.

Step3 :- Take Copper-Straight-through cable and connect all PC's with Switch using it.

step4 :- Connect Router to Switch using Copper-straight-through cable.

step5 :- Configuring Router :- Go to Router → Config tab → fast Ethernet 0/0 → Port Status should be ON → set IP 192.168.0.1 → check subnet mask.
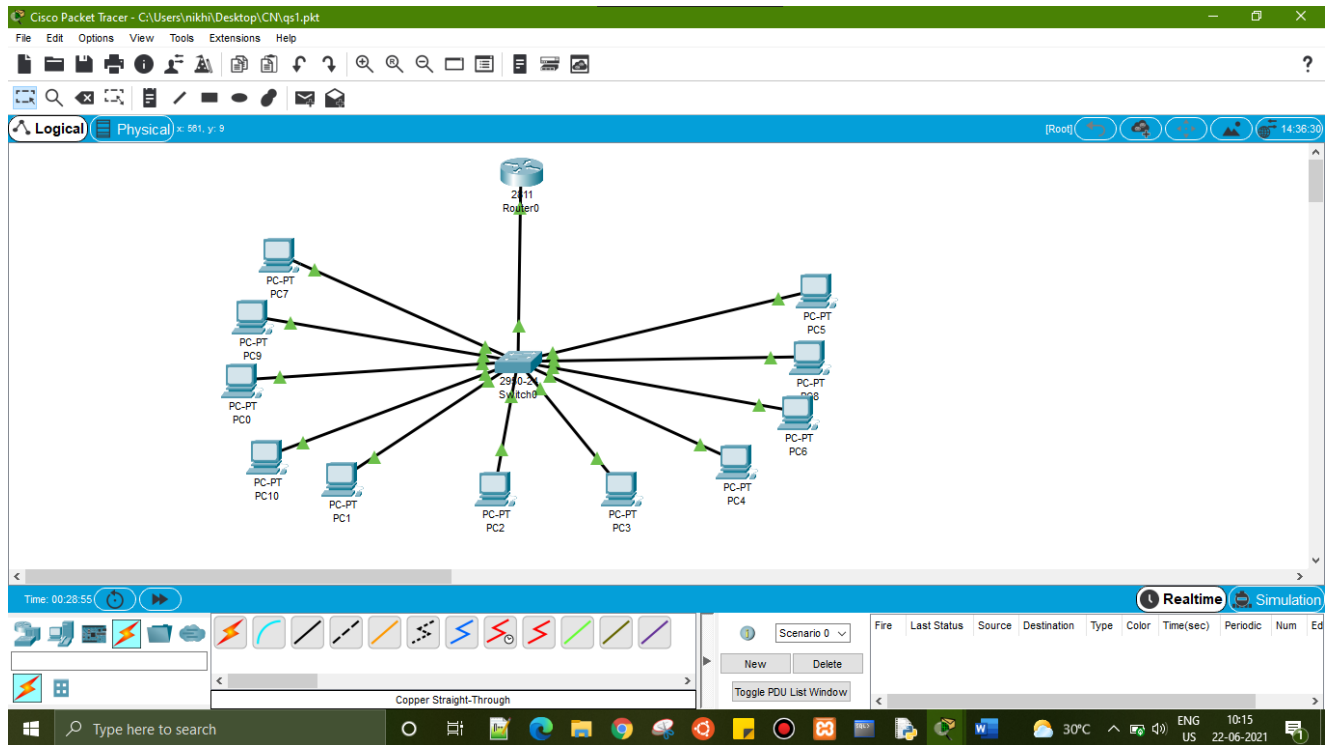
step6 :- Configuring PC's
Go to PC 0 → Desktop → IP → DHCP ⊙ → It will automatically assign IP to PC. → DHCP request successful

step7 :- follow step 6 for all 10 PC's

step8 :- Checking Connection
Go to PC 1 → Desktop → Command Prompt → → ping 192.168.0.5 (IP of 5ᵗʰ PC) → It will connect.

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CONFIGURING ROUTER

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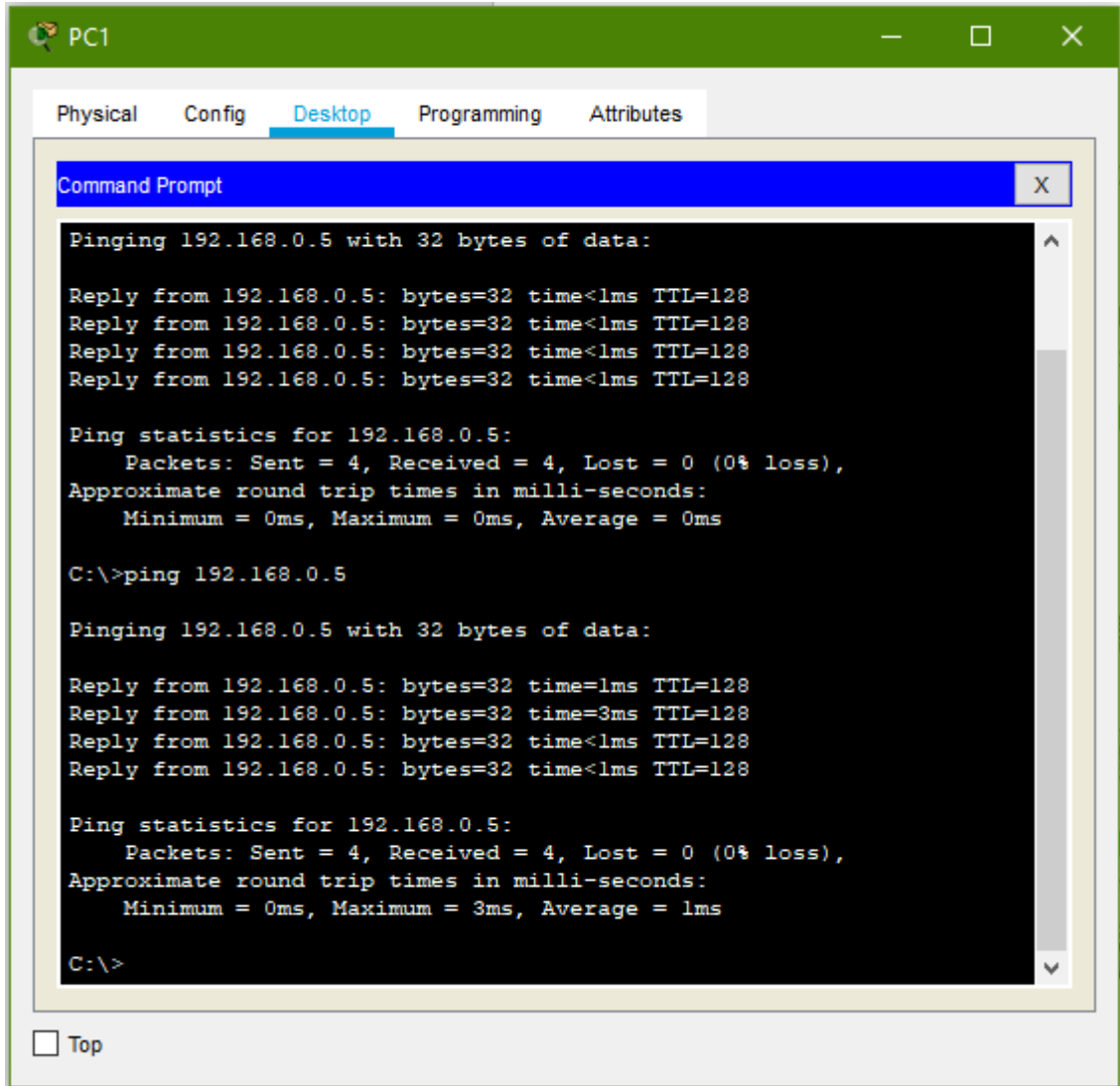**UNI. ROLL NO. – 2001094**
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Connecting PC1 to PC 5

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