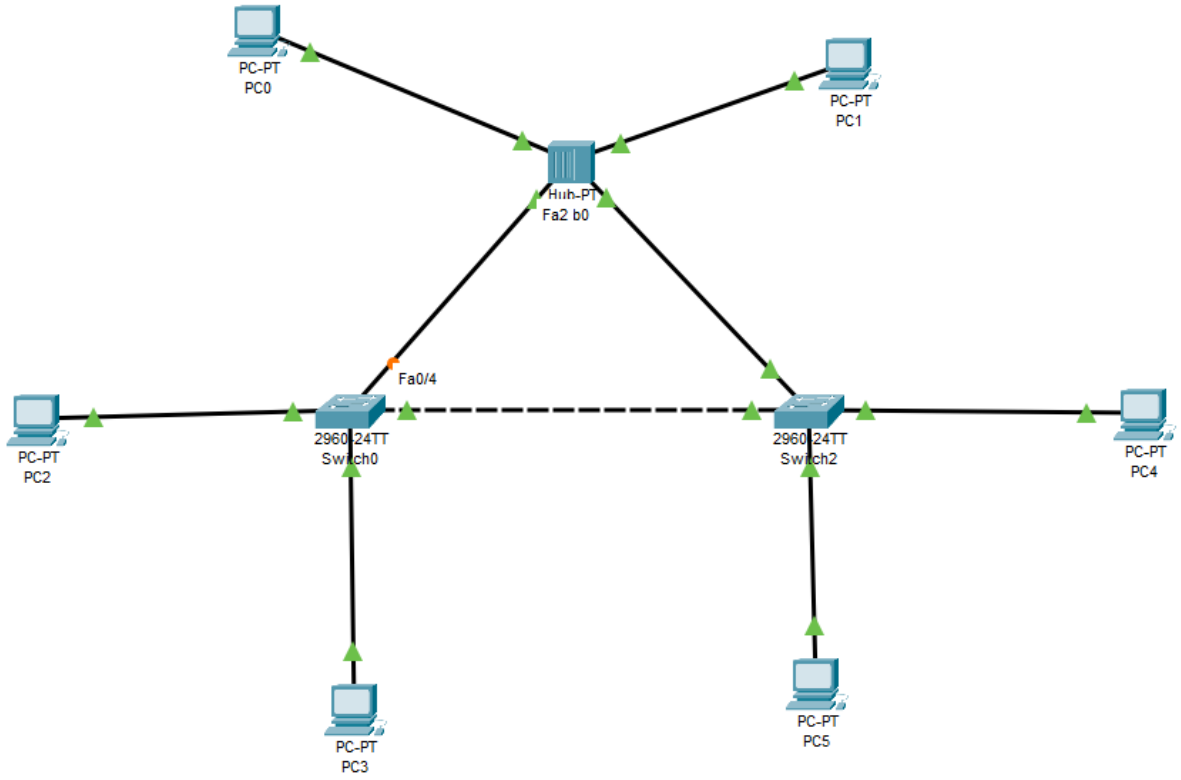
NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCE
Computer Networks Lab (CL307)
Lab Session 02

Teacher signature: _____ Date: _____
Student ID: _____ Name: _____ Score: _____

Task 01



01. Create above network topology and assign IP address to all PCs.
02. Change Switches name with your roll number (capture and attach screenshot).
03. Send PDU from PC0 to PC1 (analyze how communication happen and read ICMP messages (capture and attach screenshot)).
04. Send PDU from PC1 to PC3 (analyze how communication happen and read ICMP messages (capture and attach screenshot)).
05. Send PDU from PC3 to PC4 (analyze how communication happen and read ICMP messages (capture and attach screenshot)).

Answer the following questions

Q 1: Explain in one line

i. Broadcast message _____
ii. Unicast message _____
iii. Multicast _____

Q 2: Hub is layer _____ device.

Q3: Switch is layer _____ device and it able to understand _____ addresses.

Q4: Router is layer _____ device and it use _____ addresses.

Q 5: Switches has _____ number of modes, their names and commands are _

_____

Q 6: If someone wants to configure switch what mode he/she should be use? And why?

Answer: _____

Q7: Which command is used to check switch configuration? _____

Q8: What is ICMP message? _____

Q9: As in above task (activity number 3) when we send PDU from PC0 to PC1 it use source and destination IP addresses, same as when we ping from PC0 to PC1 by using IP addresses, As we can see PC0 and PC1 are connected with each other via Hub (layer 1 device) that is not able to understand IP. So how ICMP messages or ping messages has been sent?

Answer: _____

_____

_____

_____

Q10: Explain Inbound and Outbound.

Answer: _____

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