Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

6

LIST OF TASKS

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | Take 4 switches named as: A, B, C, D and connect them in alphabetical order. Perform and show the following configurations in your lab task: a. Switch A with VLANs faculty and students having 1 logical port each. b. Now assign 1 logical port each to VLANs faculty and students in Switch B and D. c. Now make switch A in server mode, whereas B and D in client mode and switch C in transparent mode. d. Assign IP addresses to PCs connected to Switch A, B and D. e. Now ping within the same VLAN and outside the same VLAN and show your results. |

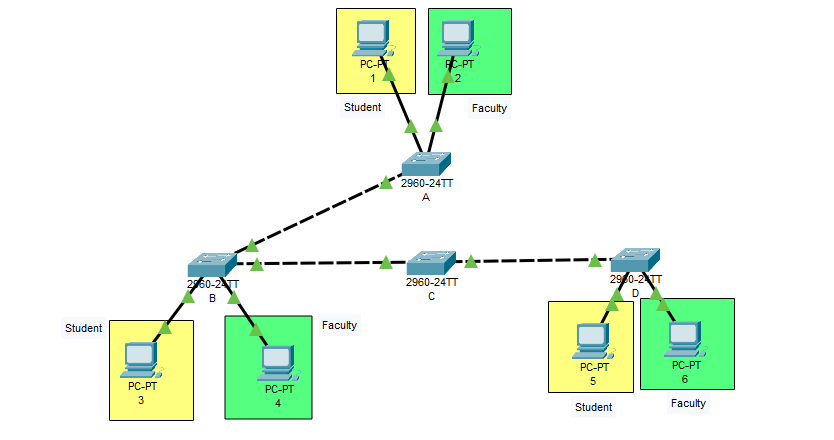
Submitted On:

2-Nov-2023

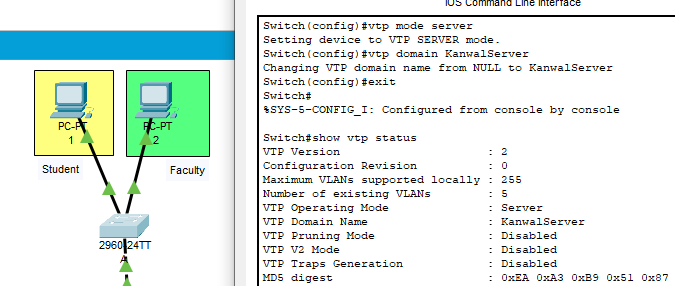
(Date: DD/MM/YYYY)

**TASK 01**

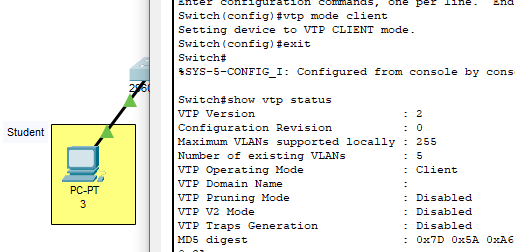
Take 4 switches named as: A, B, C, D and connect them in alphabetical order. Perform and show the following configurations in your lab task: a. Switch A with VLANs faculty and students having 1 logical port each. b. Now assign 1 logical port each to VLANs faculty and students in Switch B and D. c. Now make switch A in server mode, whereas B and D in client mode and switch C in transparent mode. d. Assign IP addresses to PCs connected to Switch A, B and D. e. Now ping within the same VLAN and outside the same VLAN and show your results.



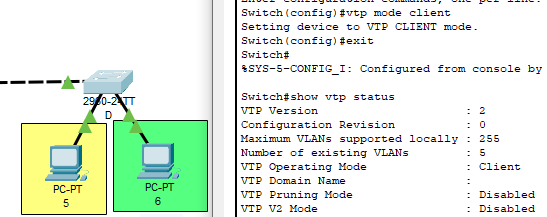
**MAKING SWITCH A SERVER MODE**



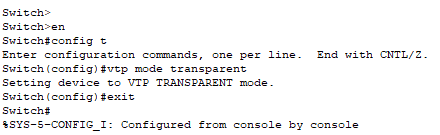
**MAKING SWITCH B CLIENT MODE**

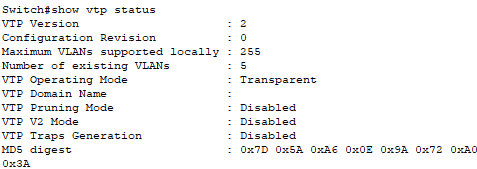


**MAKING SWITCH D CLIENT MODE**

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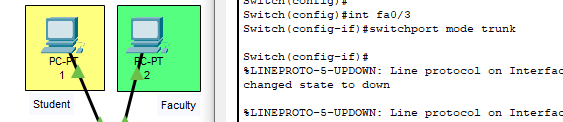
**MAKING SWITCH C TRANSPARENT MODE**

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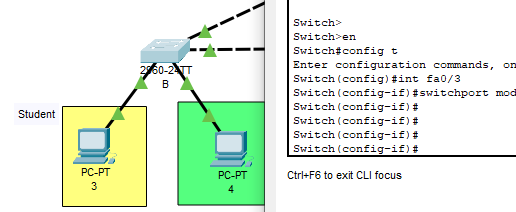
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**TRUNKING**

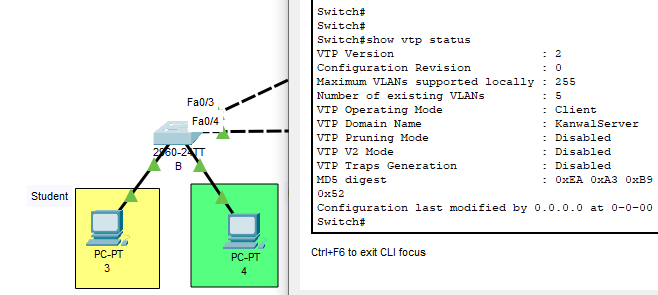
**A TO B**

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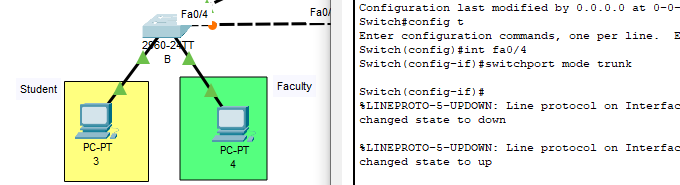
**B TO A**

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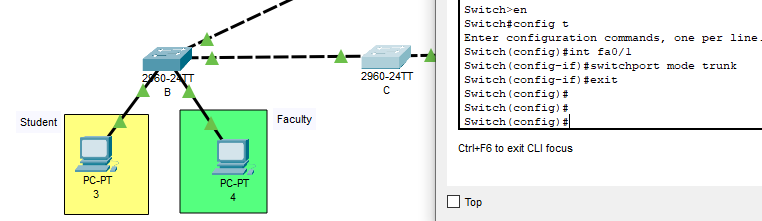
**CHECKING B**

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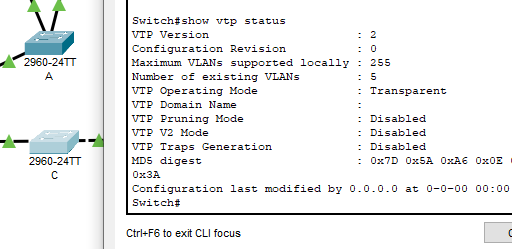
**B TO C**

****

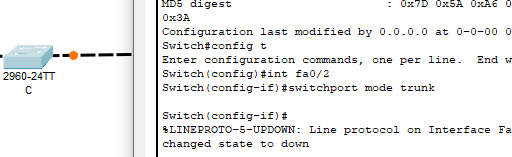
**C TO B**



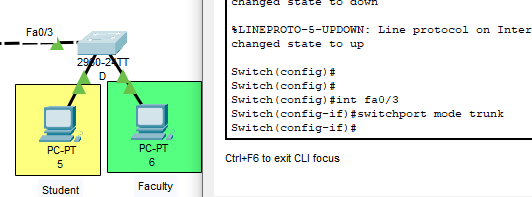
**CHECKING C**



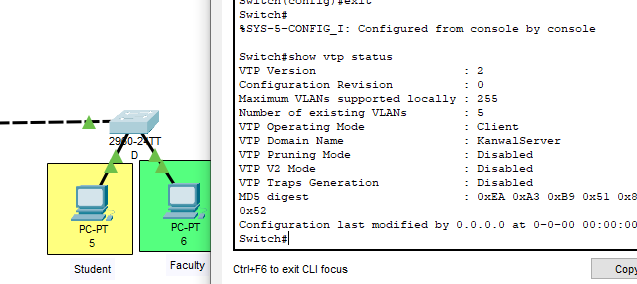
**C TO D**



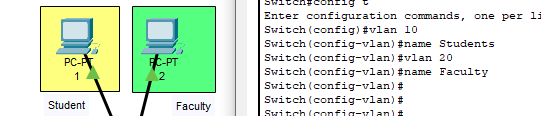
**D TO C**



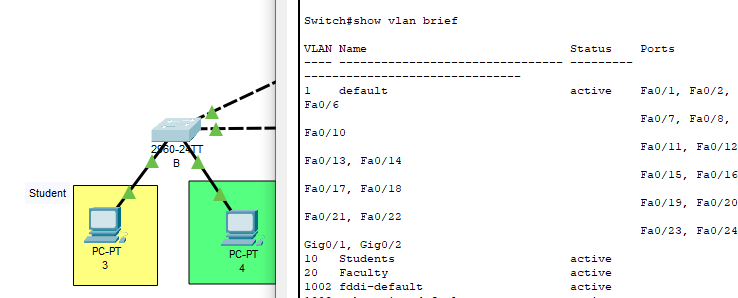
**CHECKING D**



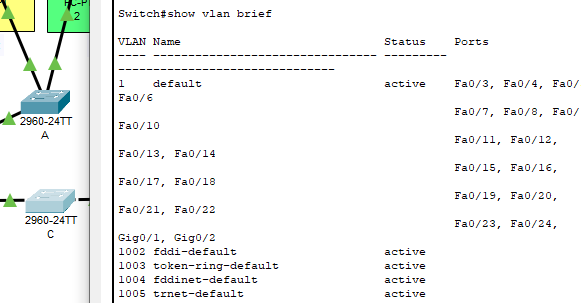
**SETTING VLAN IN A**



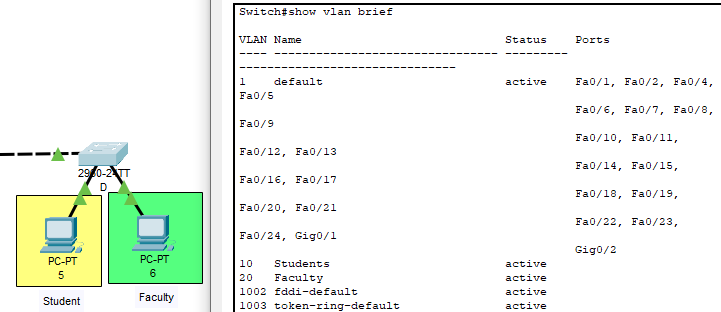
**CHECKING VLAN IN B**



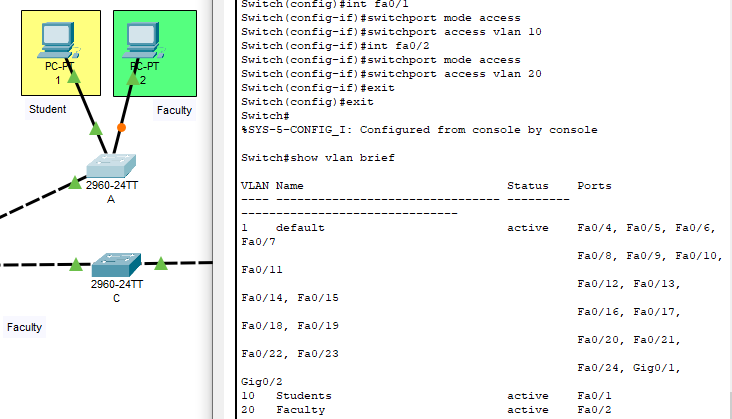
**CHECKING VLAN IN C BUT NO VLAN HERE SINCE IT IS TRANSPARENT**



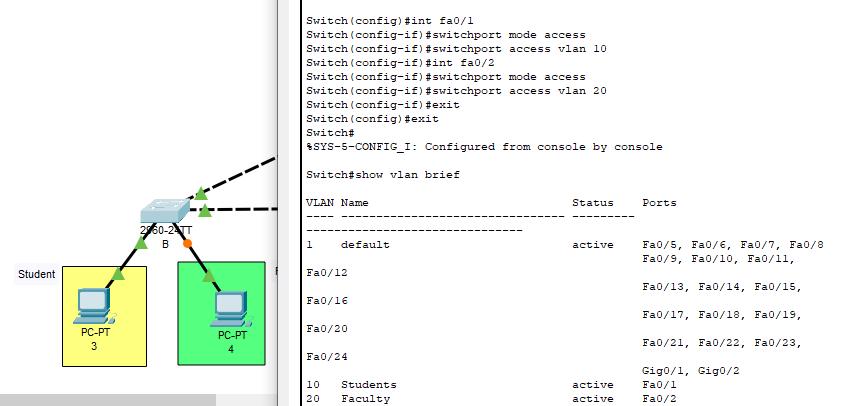
**CHECKING VLAN IN D**



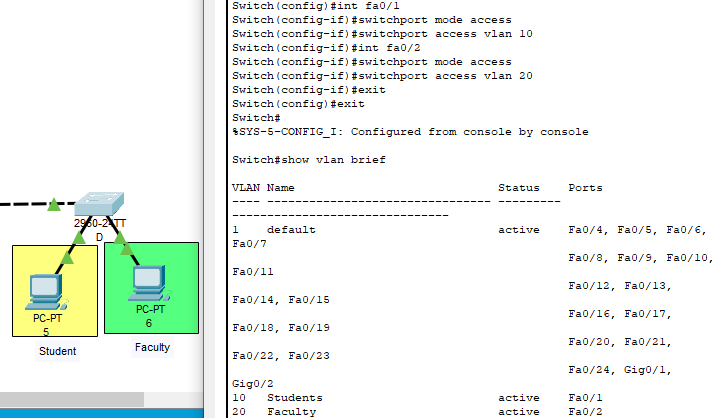
**CONFIGURING SWITCH A**



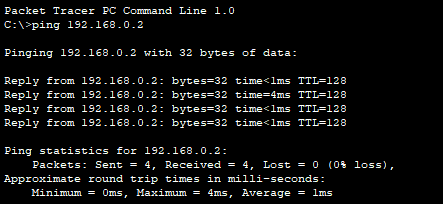
**CONFIGURING SWITCH B**



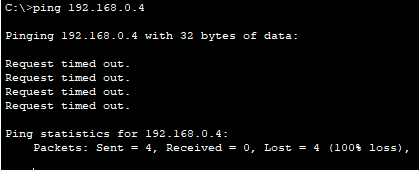
**CONFIGURING SWITCH D**



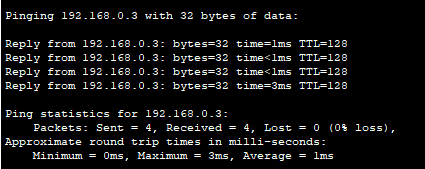
1. **Client1(Fac) to Server(Fac) = Ping**

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1. **Client1(Stud) to Client1(Fac) = Failed**

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1. **Server(Stud) to Client1(Stud) = Ping**

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1. **Anywhere to Client2 = Failed**

