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Subject= Computer communication and network(Lab)

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Task 1

① Construct a network topology having one switch connected with 5 PCs with full Ethernet cables.

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graph TD; Switch --- PC1; Switch --- PC2; Switch --- PC3; Switch --- PC4; Switch --- PC5;
```

② Assign them proper IP addresses, subnet mask and default gateway.

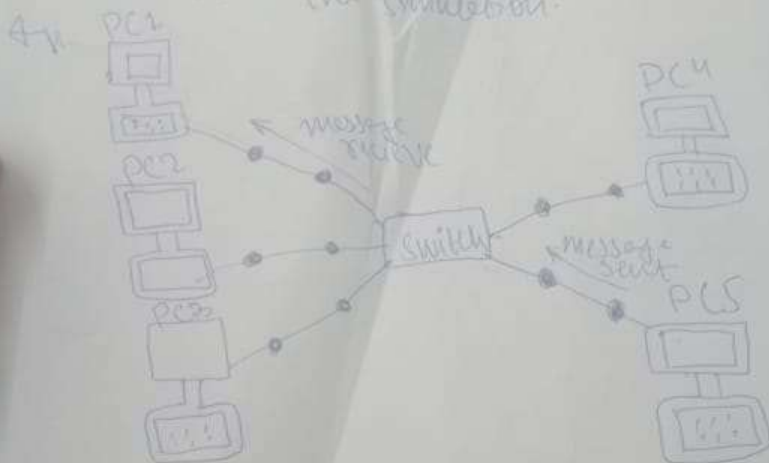
Ans:- ADDRESSING Table :-

Device	IP Address	Subnet/Mask	Default Gateway
PC 1	192.168.0.1	255.255.255.0	192.168.1.25
PC 2	192.168.1.2	255.255.255.0	192.168.0.0

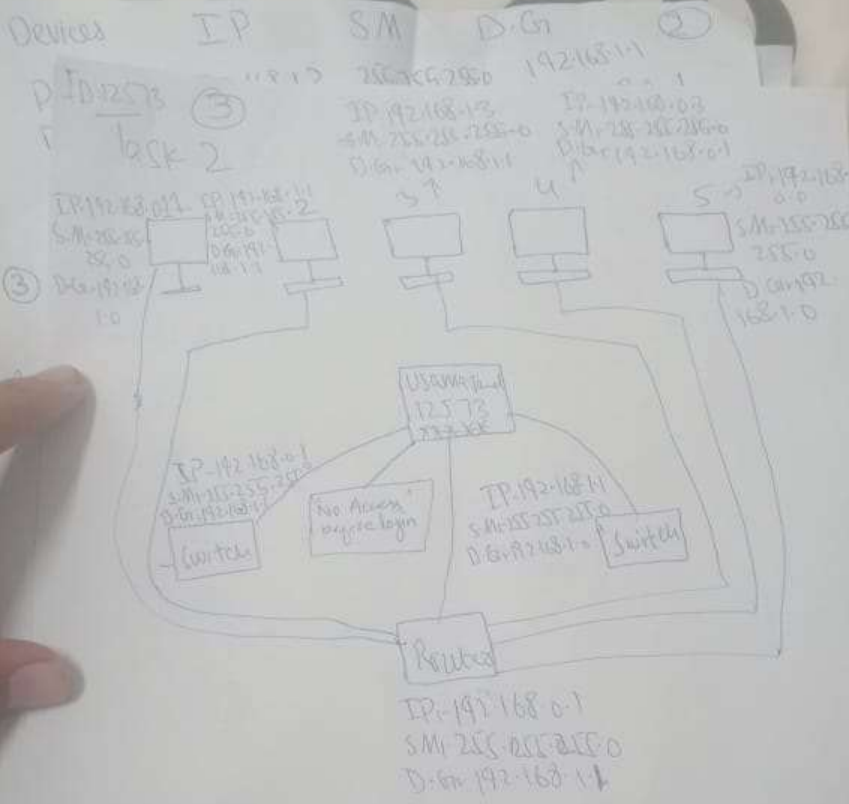
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Devices	IP	SM	D-G
PC 3	192.168.1.3	255.255.255.0	192.168.1.1
PC 4	192.168.0.3	255.255.255.0	192.168.0.1
PC 5	192.168.0.0	255.255.255.0	192.168.1.0

③ Send message from PC5 to PC1 and demonstrate the simulation.



In this figure we demonstrate that PC5 sent data to PC1. PC5 doesn't send data to PC1 directly. So we send the message send the switch after that switch send the message to PC1. Through the main switch we send data one PC to another PC.



Ping Command Prompt
 To use the ping command you go to the command prompt on windows (XP/7) start menu and enter cmd to open the command prompt on windows 10 type cmd into the search box and select the cmd prompt from the displayed programs. You can use the ping cmd with an IP address or the computer host name. To ping an IP address go to cmd prompt and enter. Ping IP address eg 192.168.1.1 or to a

Names T D
Ping computer ping computer name eg ping computer
I have shown both failed ping (192.168.0.2) &
successful ping (192.168.1.2).

(4)