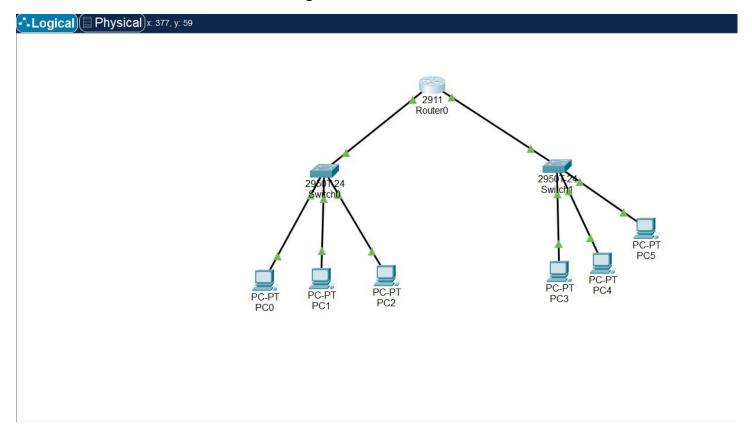
TASK 2

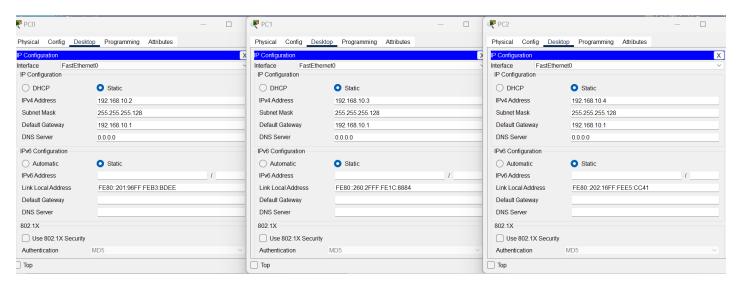
Submitted by: Youail John (EL-19038)

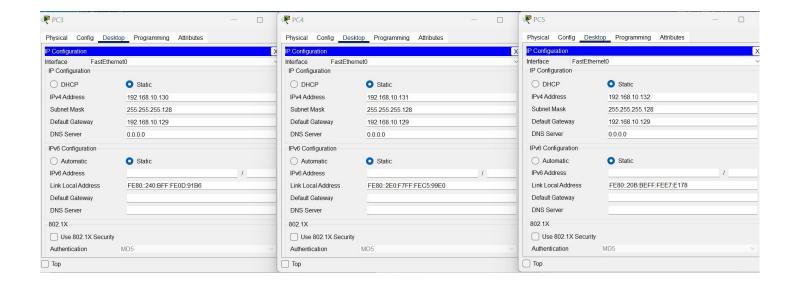
TASK 2 You'd John EL-19038. Total Subnet = D' = 2	
Total Hosts persubnet = 2° = 128. Hotel Wolld Hosts persubnet = 2° - 2 = 126. Block bize = 256-128=128.	
That submet Mark = 192.168.10.00000000 - 192.169.10.7 1P address = 192.168.10.0 - 192.168.0.128. 2st valid Host = 192.168.10.00000001	
last valid #05t = 192.168.10.0111110	
Spoodast 119 = 192. 168. 10.01111111 OR 192. 168. 10.127	
Berond Pubnet Mask: 192.168.10.00000000 - 192.168.10.1111111 1Poddless = 192.668.10.128-192.168.10.2575\$1 1st volid 1658t = 192.168.10.10000001	
last velod first = 192.168.10.1211110	
Broadcast 10= 192-168.10-11111111 OR 192-168.10-1111111	

Designing the Topology: As there are 2 possible Subnets we attached 2 switches to the router to differentiate the broadcast domains and assigned 3 PCs to each domain.

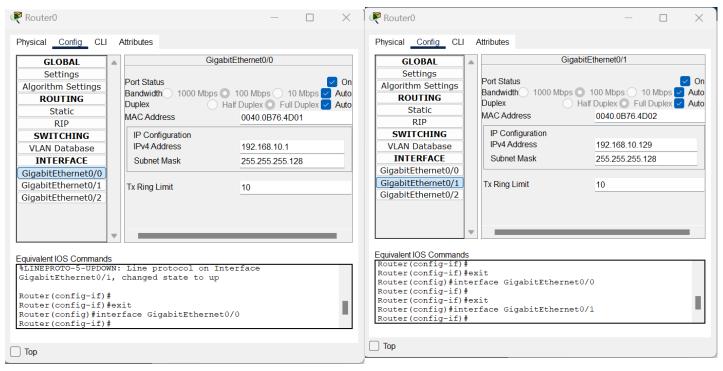


Setting up PCs: Assigning IP addresses to first 3 PCs between 192.168.10.2 - 192.168.10.4 with default gateway being 192.168.10.1 which is 1st valid host in this subnet family. Default subnet mask is 255.255.255.128





<u>Setting up Router:</u> Connecting the switches to router and adding the deault IPv4 of each subnet. As there are 2 domains so this is done twice 1^{st} IP is 192.168.10.1 and 2^{nd} is 192.168.10.129.



<u>Pinging:</u> Verifying connections by pinging PC1 (IPv4=192.168.10.3) to PC4 (IPv4=192.168.10.131) which is successful.

