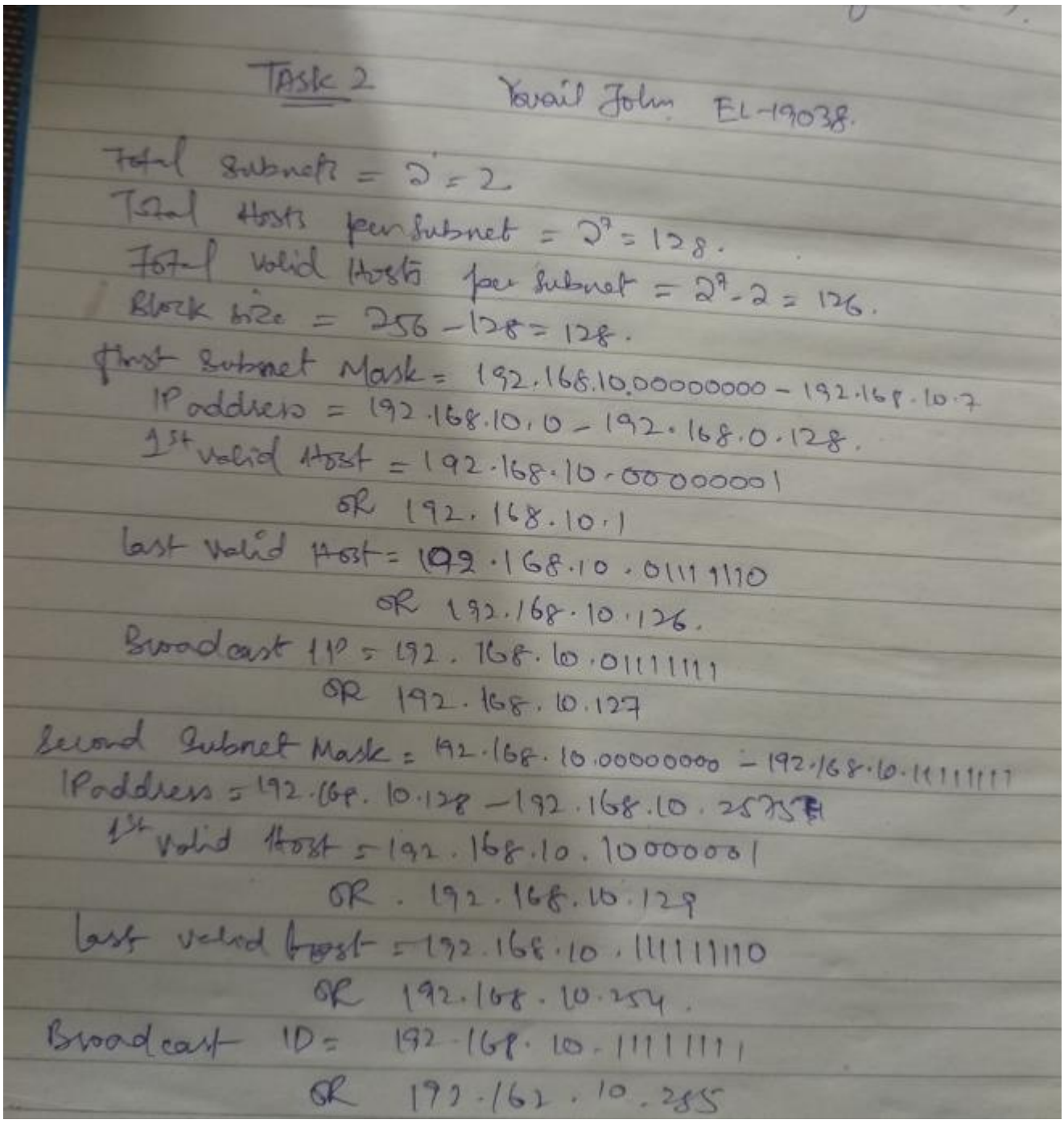
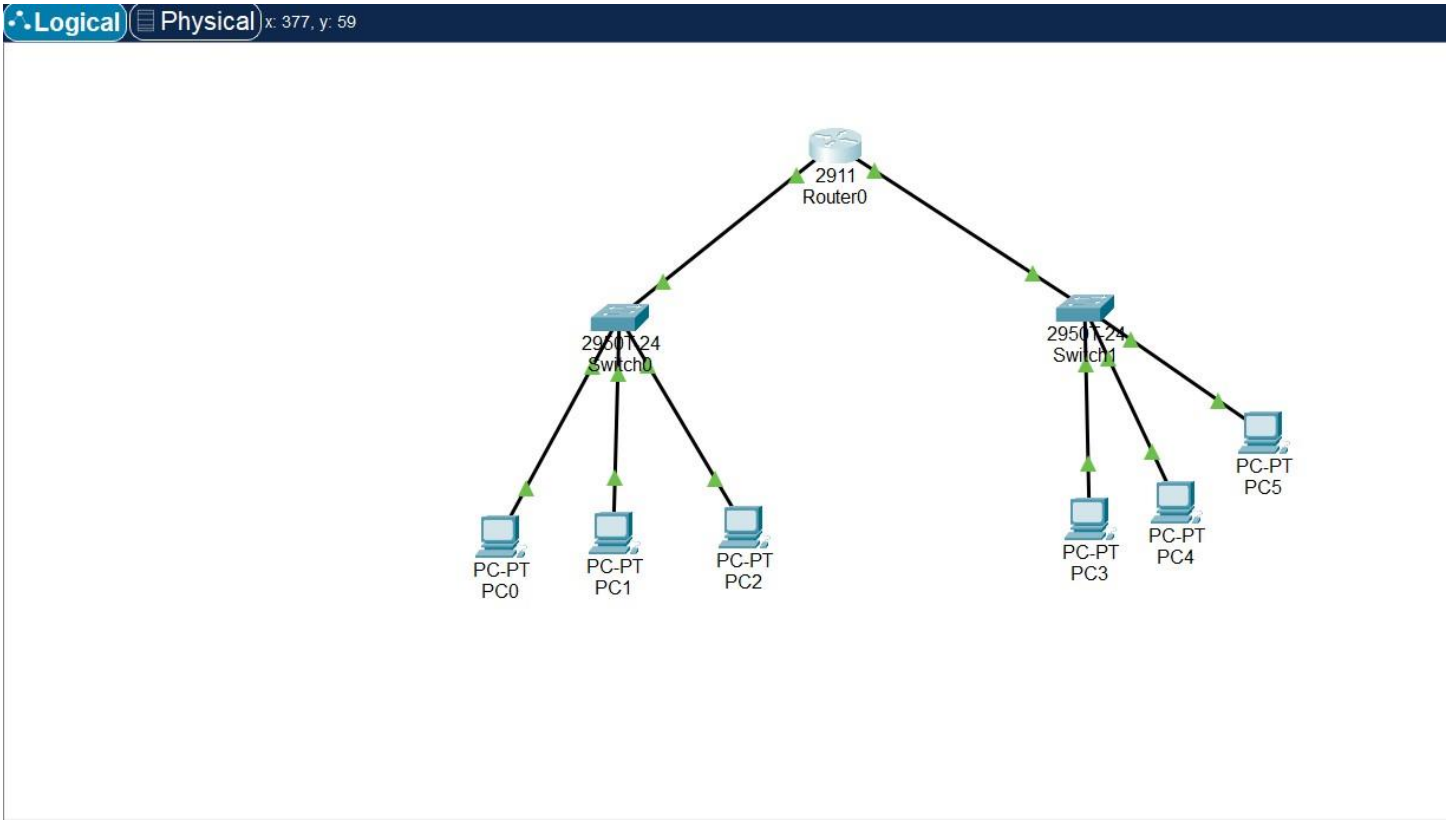
# TASK 2

**Submitted by: Youail John (EL-19038)**

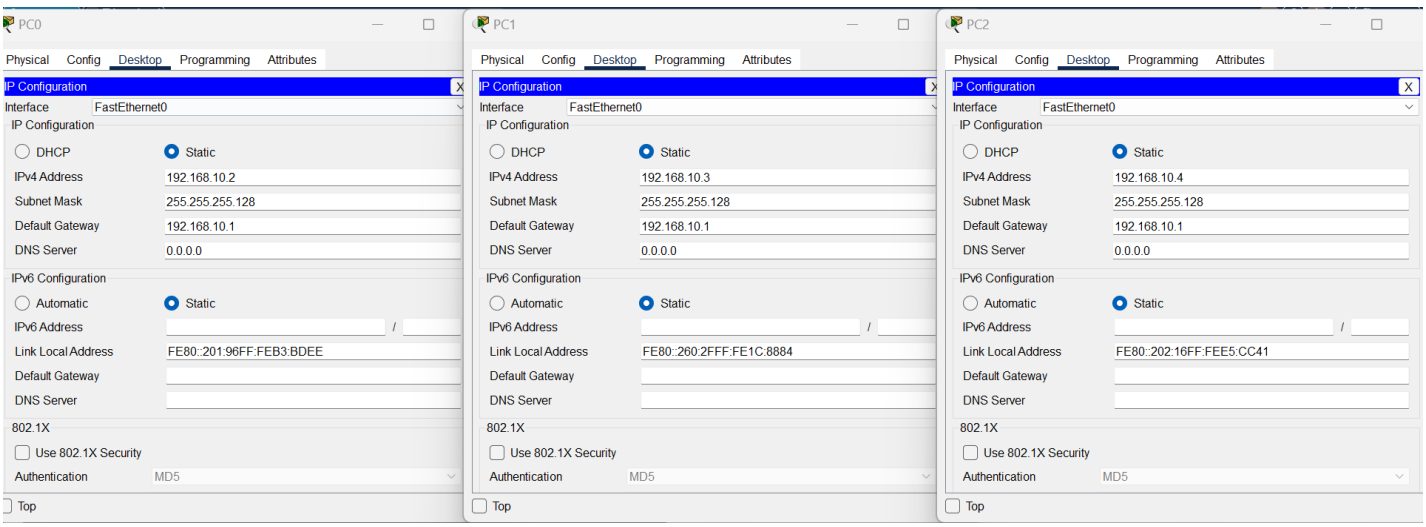
Given Network Address is 192.168.10.0 which is Class C IPv4 and subnet mask is 255.255.255.128 (binary=11111111.11111111.11111111.10000000) Now with this we will find following information.

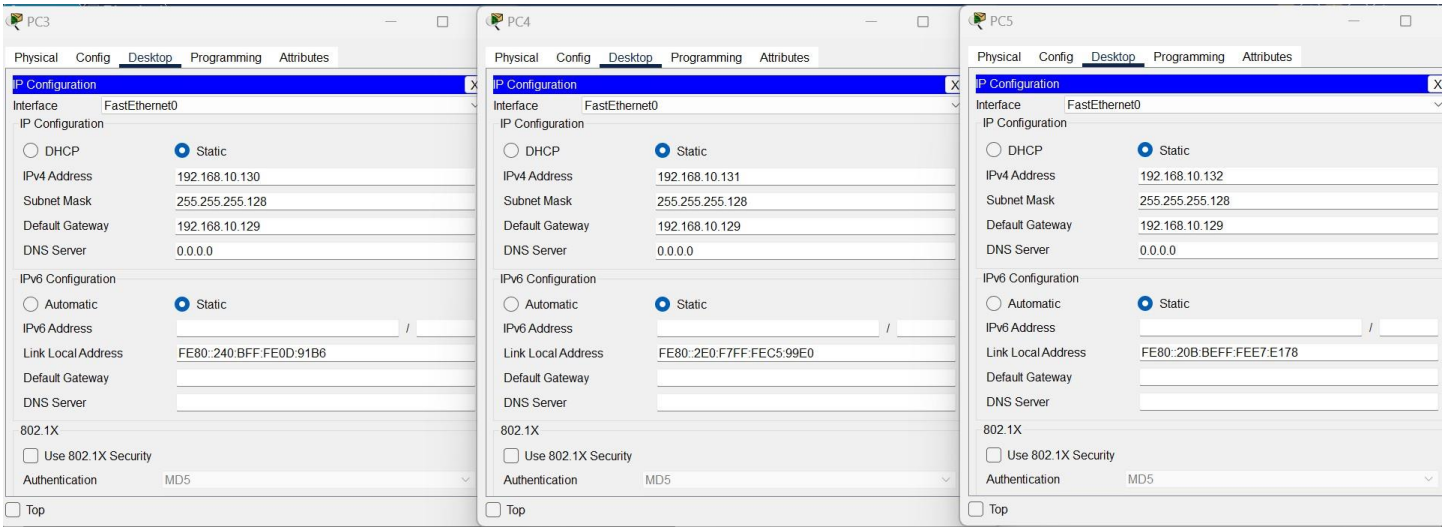


**Designing the Topology:** As there are 2 possible Subnets we attached 2 switches to the router to differentiate the broadcast domains and assigned 3 PCs to each domain.

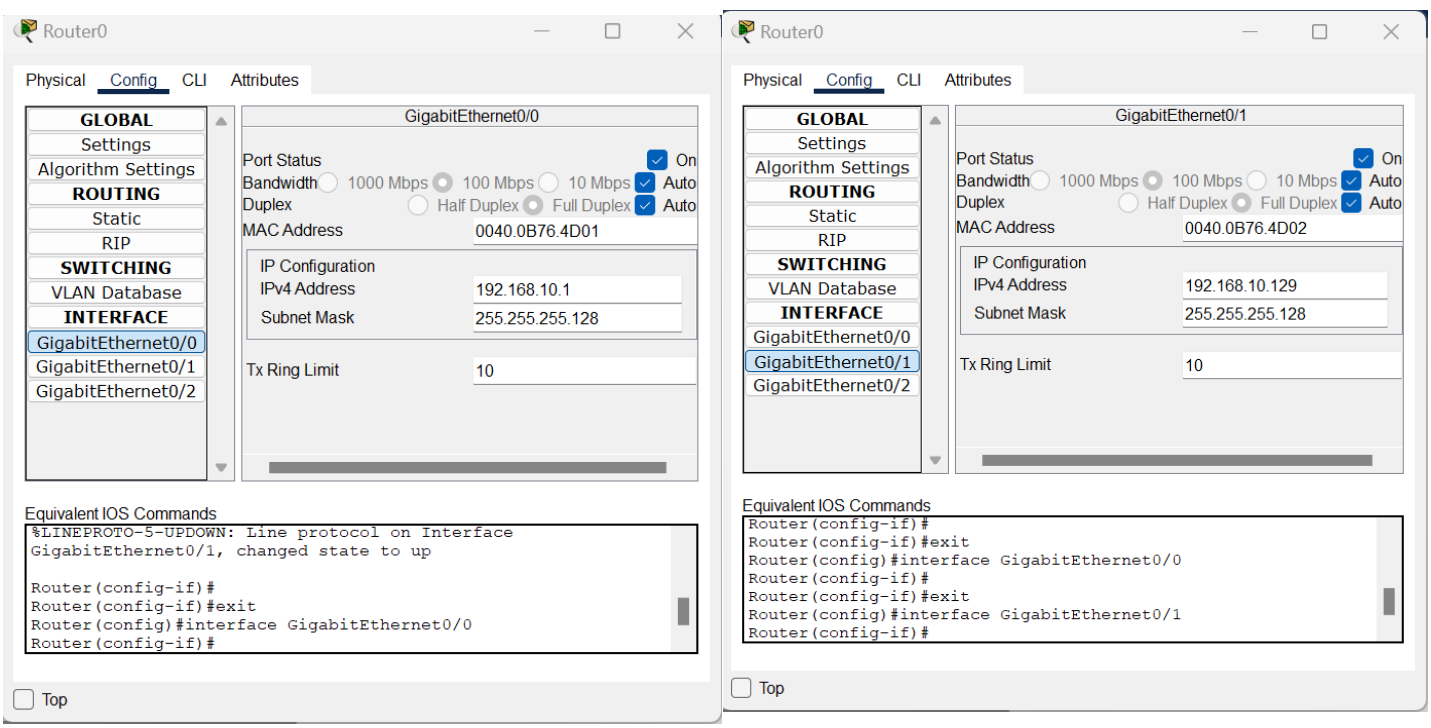



**Setting up PCs:** Assigning IP addresses to first 3 PCs between 192.168.10.2 - 192.168.10.4 with default gateway being 192.168.10.1 which is 1st valid host in this subnet family. Default subnet mask is 255.255.255.128






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



**Pinging:** Verifying connections by pinging PC1 (IPv4=192.168.10.3) to PC4 (IPv4=192.168.10.131) which is successful.