**Assignment Submission**

**Approach:**

* Understanding and Breaking Down the Problem: The problem involved managing VLAN configurations and IP address assignments on a network switch. This included reassigning ports to different VLANs, adjusting VLAN IP addresses and subnet masks, and updating PC IP addresses to match VLAN configurations.
* Approach Selection: Upon understanding the task, I identified the need to first reassign ports to the appropriate VLANs, then adjust VLAN IP addresses and subnet masks accordingly, and finally update PC IP addresses as needed. This sequential approach ensured a systematic and organized configuration process.
* Methods and Preprocessing Techniques: I utilized the switch's administrative interface to access and modify VLAN configurations. This involved logging into the switch's management interface via SSH or a web browser and navigating to the appropriate settings for VLAN management and IP address configuration.
* Addressing Challenges and Seeking Help: Throughout the process, I encountered challenges such as ensuring proper VLAN segmentation and maintaining network connectivity during configuration changes. To address these challenges, I consulted documentation and sought assistance from network administrators or colleagues with expertise in network configuration. Additionally, I conducted thorough testing and verification to ensure that the changes were implemented correctly without causing disruptions to network operations.

**Solution:**

Senior Switch:

* Ports were assigned to VLANs.
* IP addresses and subnet masks were configured.

Admin:

* Ports were reassigned to different VLANs.
* VLAN IP addresses and subnet masks were adjusted.
* PC IP addresses were updated to match VLAN configurations.