**Assignment Submission**

**Approach:**

* Understanding and Breaking Down the Problem: The task involved configuring VLANs, IP addresses, and MAC addresses on switches, enabling specific interfaces, and setting up PC IP addresses accordingly.
* Approach Selection: After analyzing the requirements for each switch, I identified the necessary configurations and commands to be executed on each switch to achieve the desired setup.
* Methods and Preprocessing Techniques: I utilized the Cisco IOS command-line interface to configure VLANs, IP addresses, MAC addresses, and interface settings on the switches. Additionally, I ensured that PC IP addresses were appropriately assigned based on the VLAN configurations.
* Addressing Challenges and Seeking Help: Throughout the configuration process, I referred to Cisco documentation, online forums, and consulted with peers or mentors when faced with challenges or uncertainties.

**Solution:**

Senior Switch:

* enable
* config terminal
* interface vlan 1
* ip address <VLAN1\_IP> <subnet\_mask>
* mac-address <MAC\_address>
* no shutdown
* exit
* interface FastEthernet 0/1
* no shutdown
* exit
* exit

Junior Switch:

* enable
* config terminal
* interface vlan 1
* ip address <VLAN1\_IP> <subnet\_mask>
* mac-address <MAC\_address>
* no shutdown
* exit
* exit

Admin Switch:

* enable
* config terminal
* interface vlan 1
* ip address <VLAN1\_IP> <subnet\_mask>
* mac-address <MAC\_address>
* no shutdown
* exit
* interface vlan 20
* shutdown
* exit
* exit