APPROACH:  The problem required setting up and configuring switches with VLANs, MAC addresses, and IP addresses. Additionally, adjustments to PC settings were necessary to ensure compatibility with the network setup. Finally, a specific PC named "Jack" needed to be powered on and configured

SOLUTION:

1. As jack’s pc is powered off, on it manually
2. Assigning IP and Subnet to laptop
3. Laptop connected to fa0/2 interface of senior switch, and interface is down. Use **interface fa0/2** command in config mode to change interface to up
4. Bob’s pc is connected with fa0/1 interface of junior switch, and interface is down. Use **interface fa0/1** and **no shutdown** command in config mode to change the interface to up
5. Duplex setting is misconfigured in laptop so manually change duplex setting to auto in the configuration section
6. Duplex setting is configured in bob’s pc to auto.