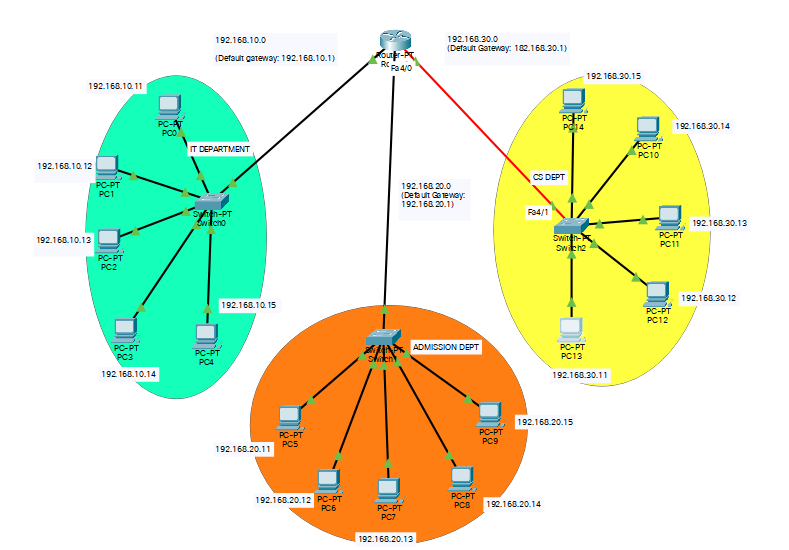
**Computer Networks Lab Final Exam**

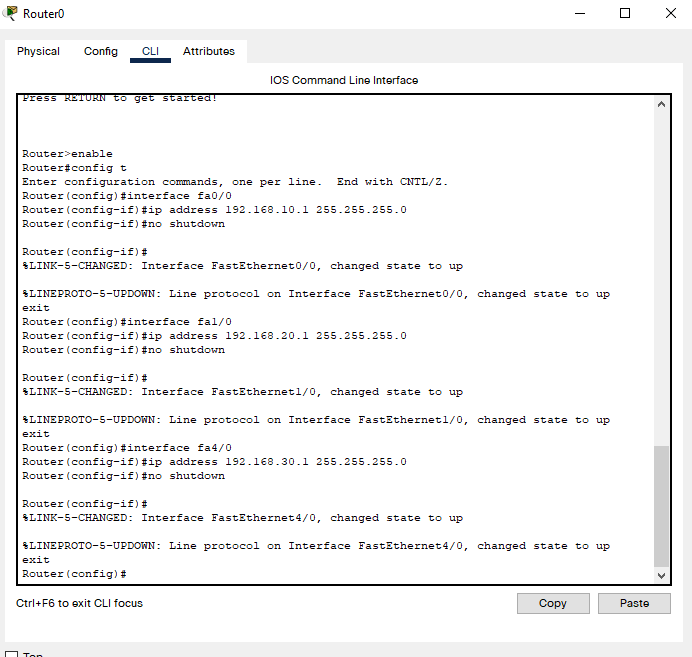
* **Name**: Shayan Adnan Hasan
* **Roll** **Number**: SE221060
* **Class**: SE-5B

**Question #1**

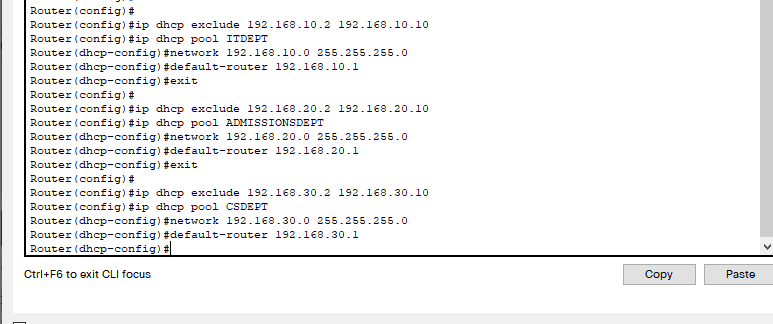
**Topology:**



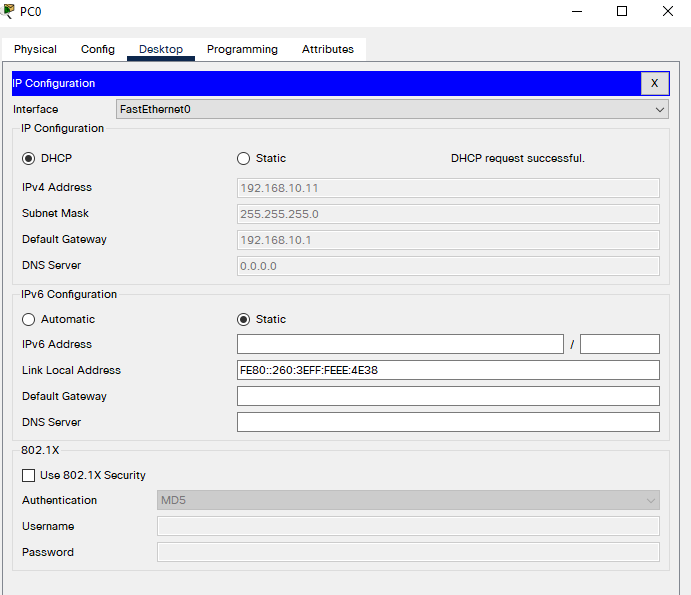
**Router Configuration:**



**Setting up DHCP (Router) to grant IPs automatically:**

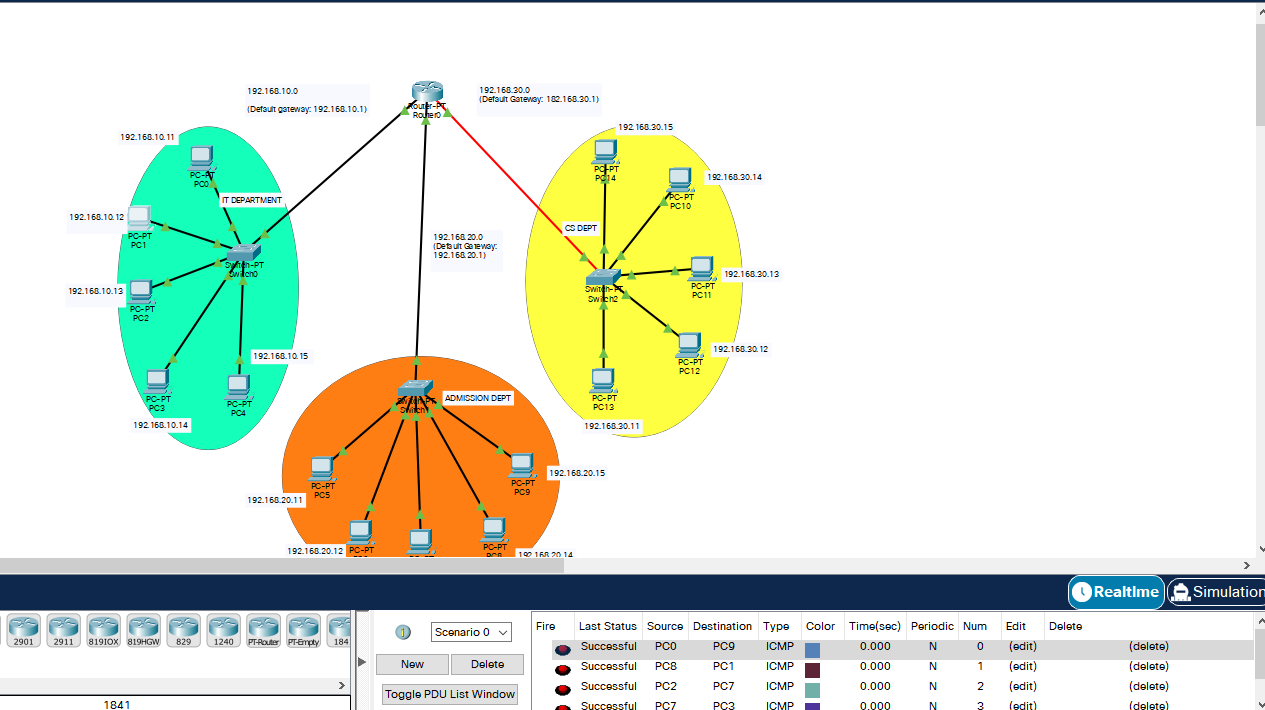


**PC Configuration:**



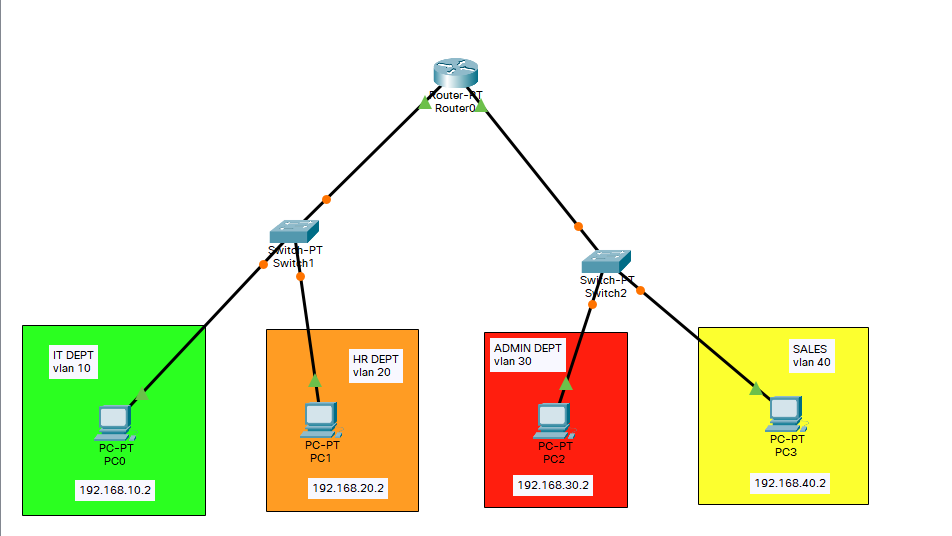
**Output:**

All five workstations of every department can successfully share data.

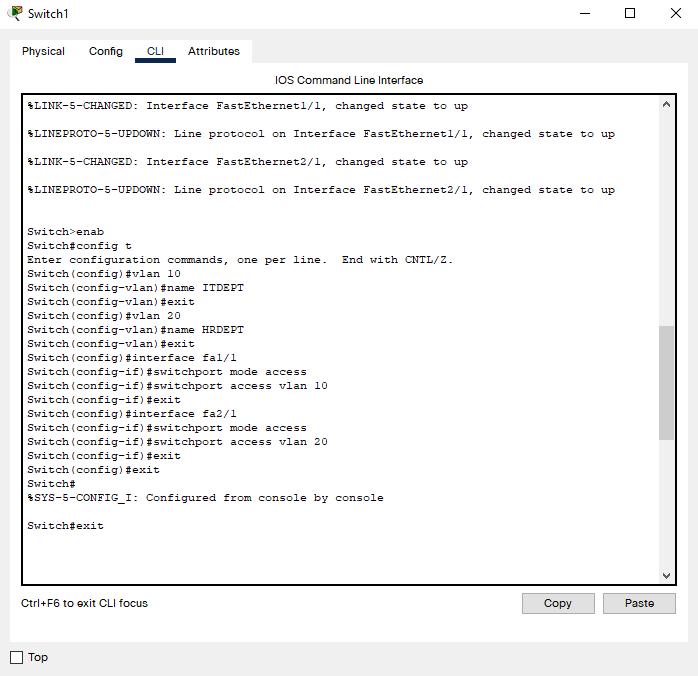


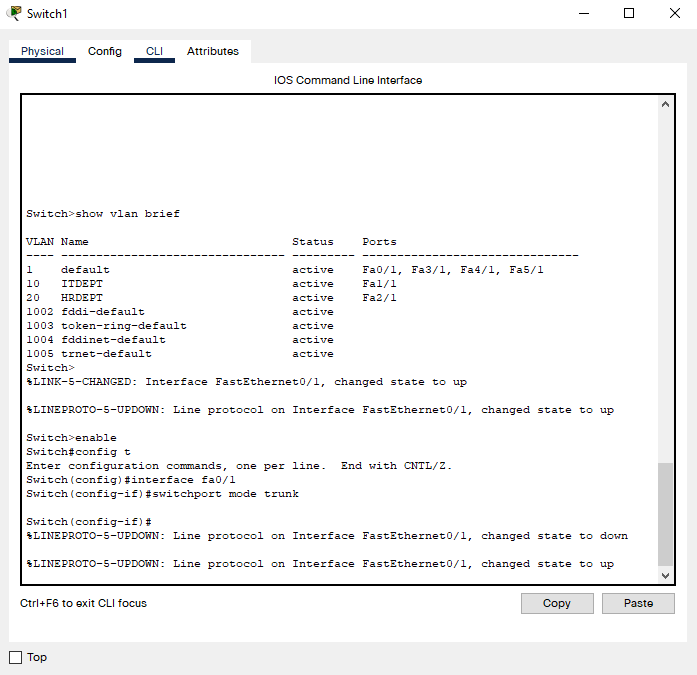
**Question #2**

**Topology:**

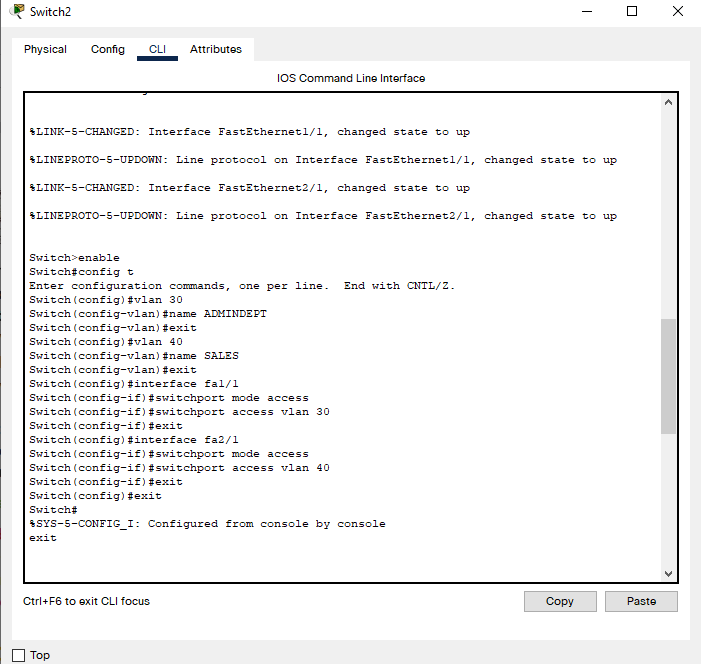


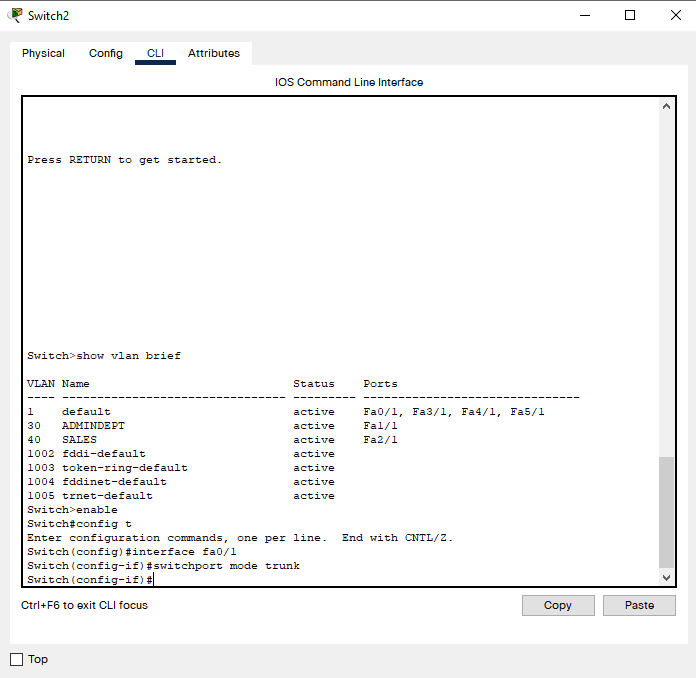
**Switch #1 Configuration:**





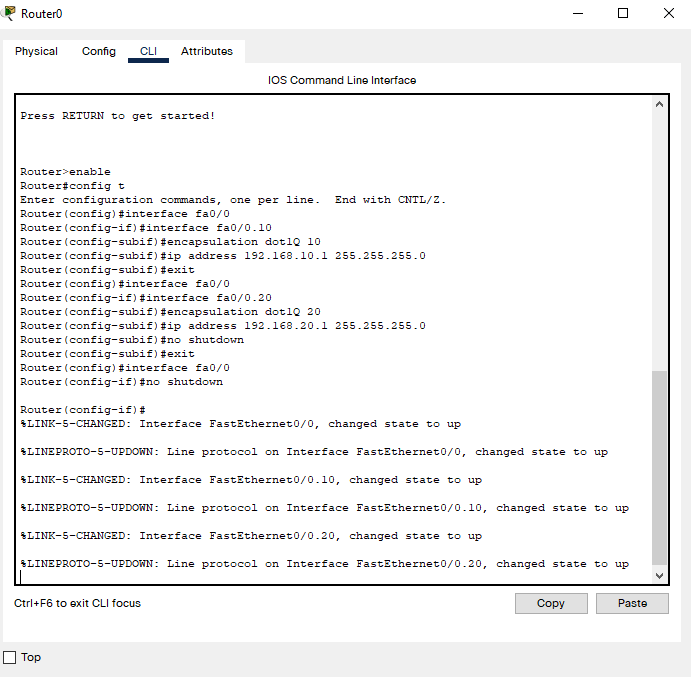
**Switch #2 Configuration:**



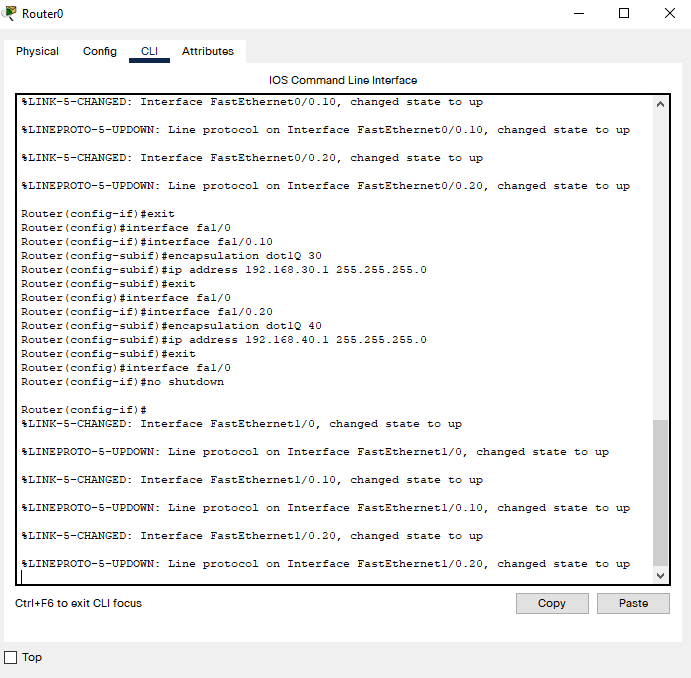


**Router Configuration:**

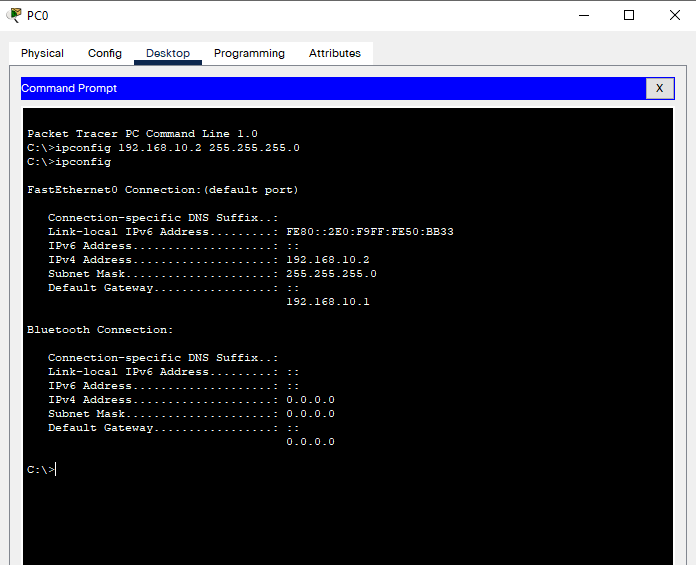
**For VLAN 10 and 20:**



**For VLAN 30 and 40:**

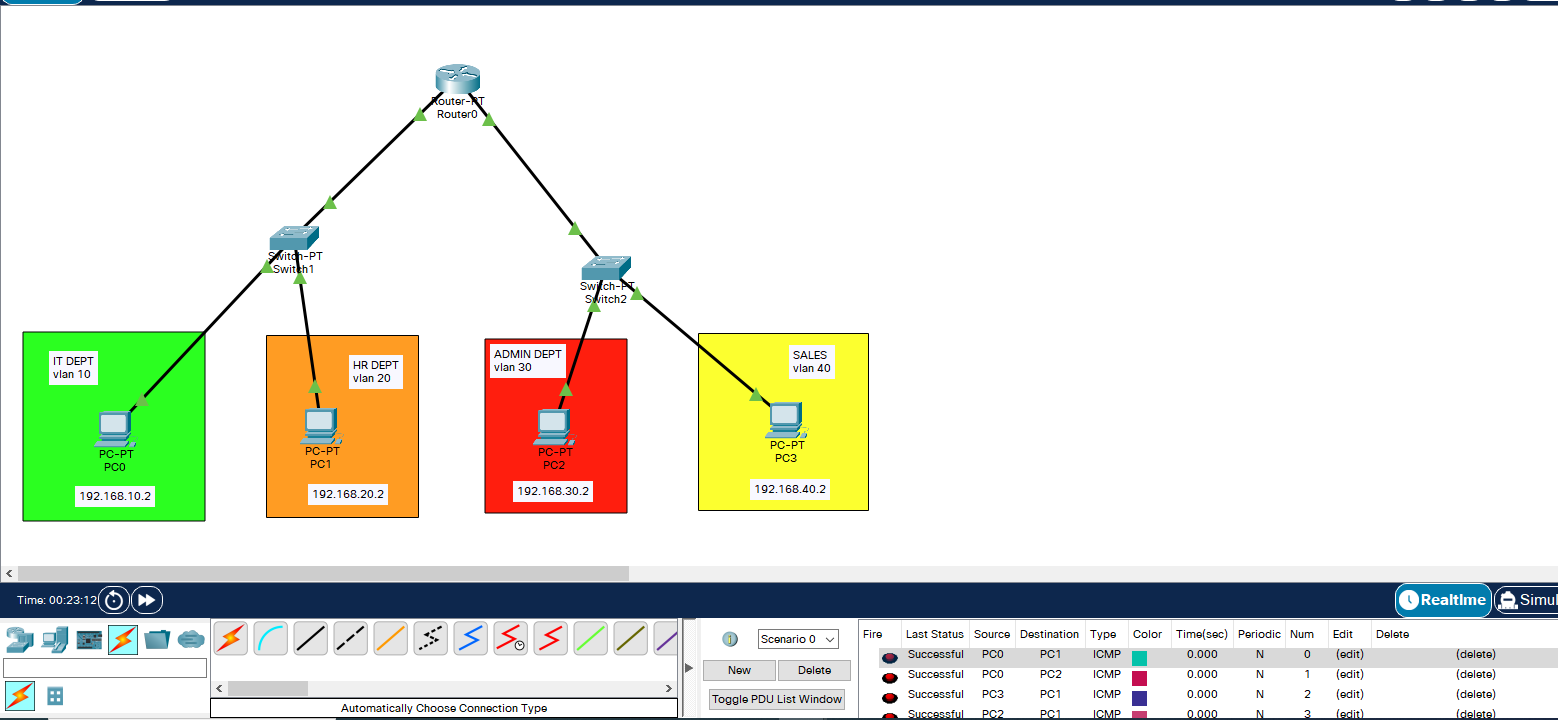


**PC Configuration:**



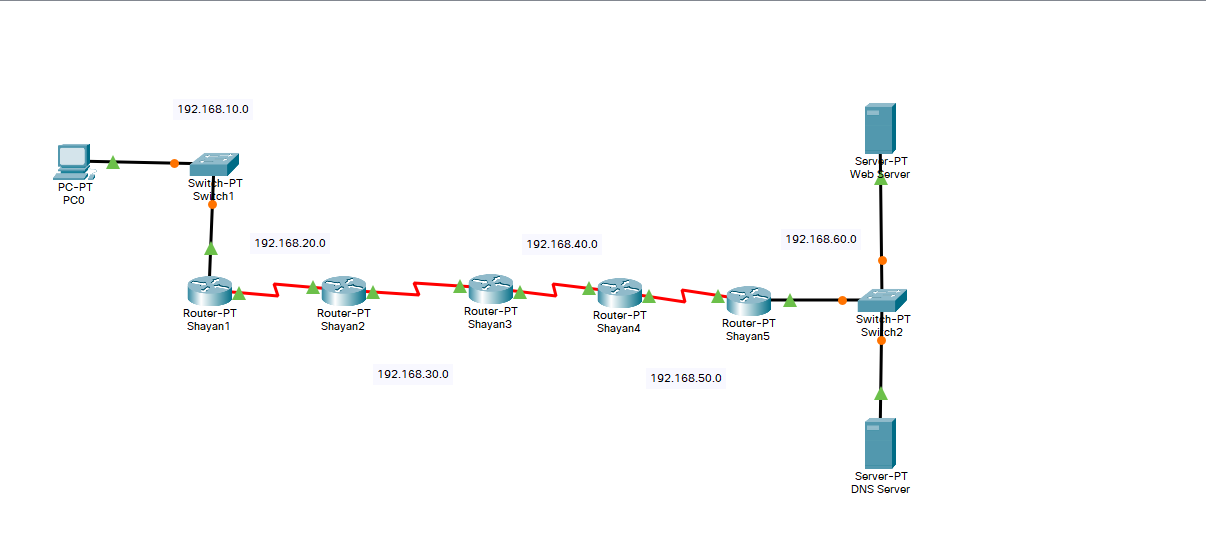
**Output:**

**All VLANs can successfully communicate with each other.**



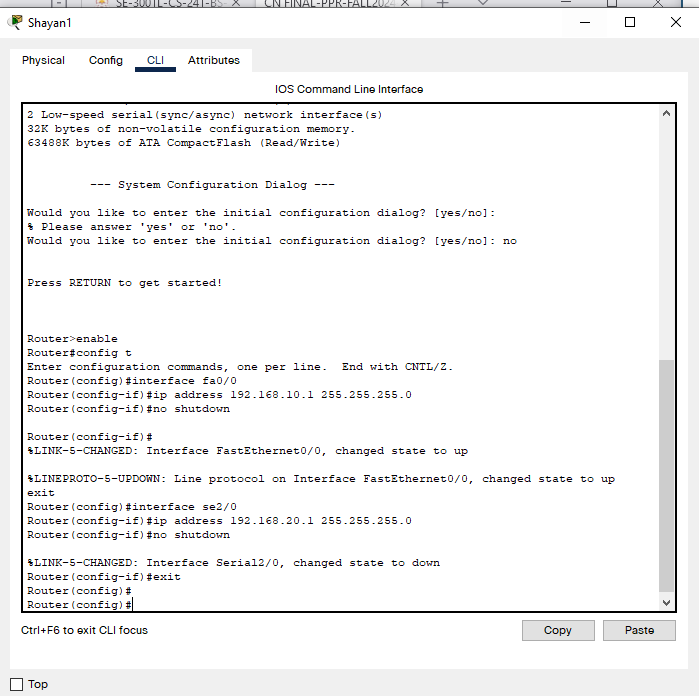
**Question #3**

**Topology:**

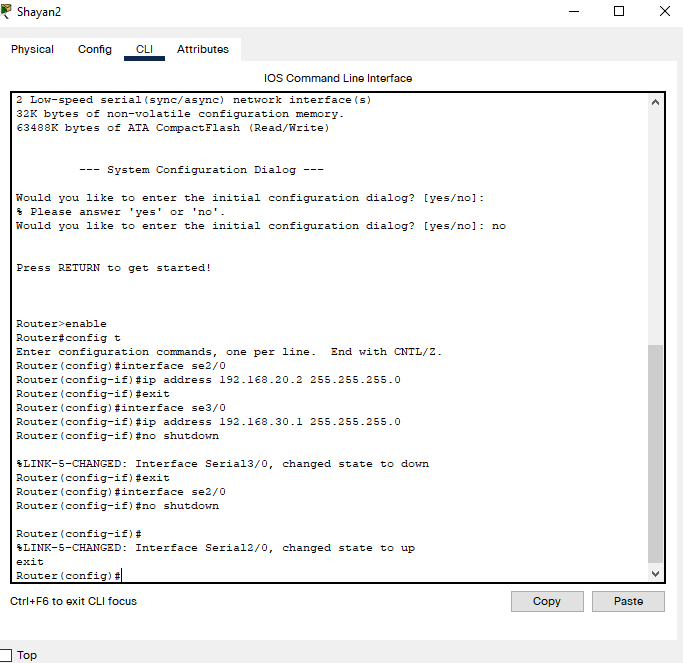


**Configuring IPs**

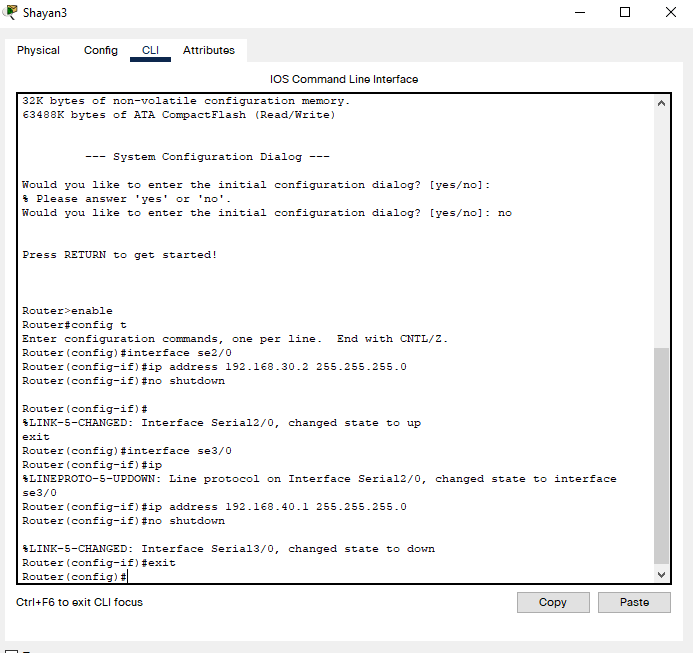
**Router #1 Configuration:**



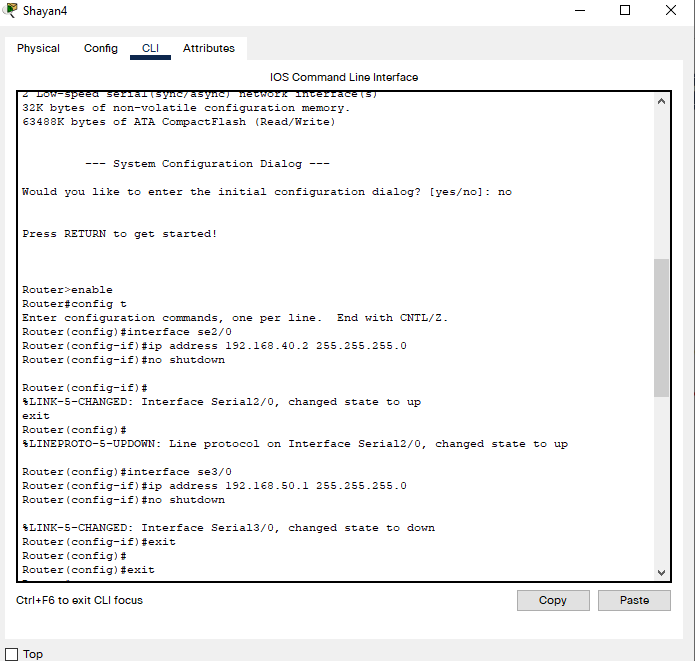
**Router #2 Configuration:**



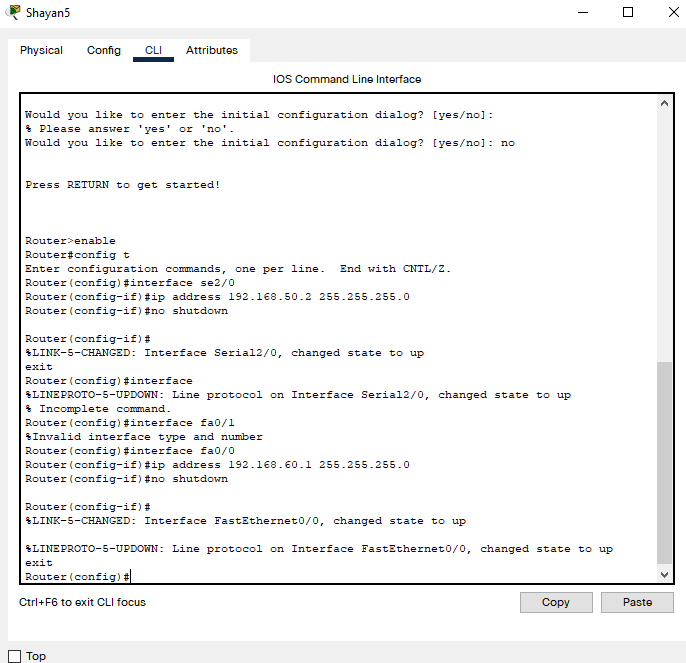
**Router #3 Configuration:**



**Router #4 Configuration:**

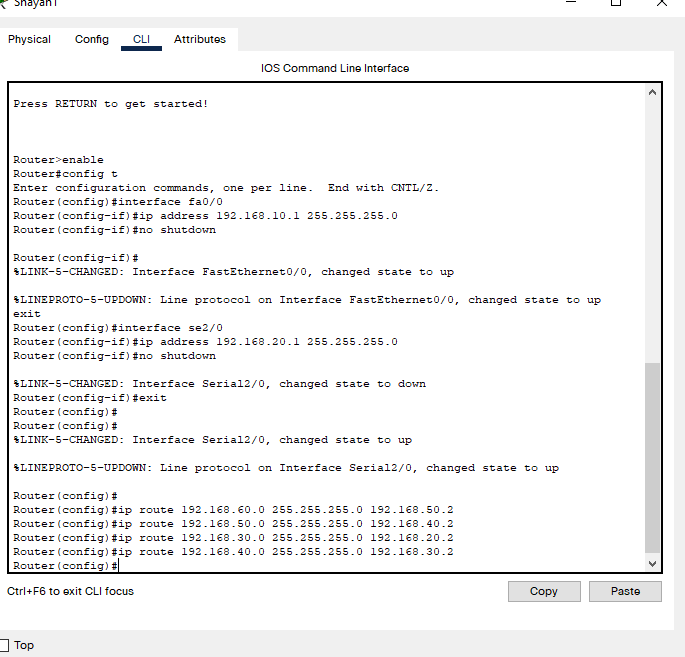


**Router #5 Configuration:**

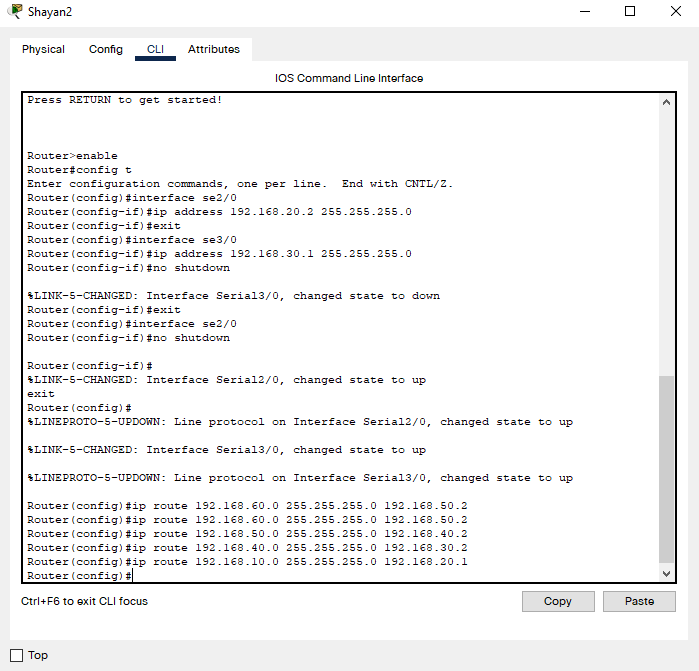


**Configuring Static Routes**

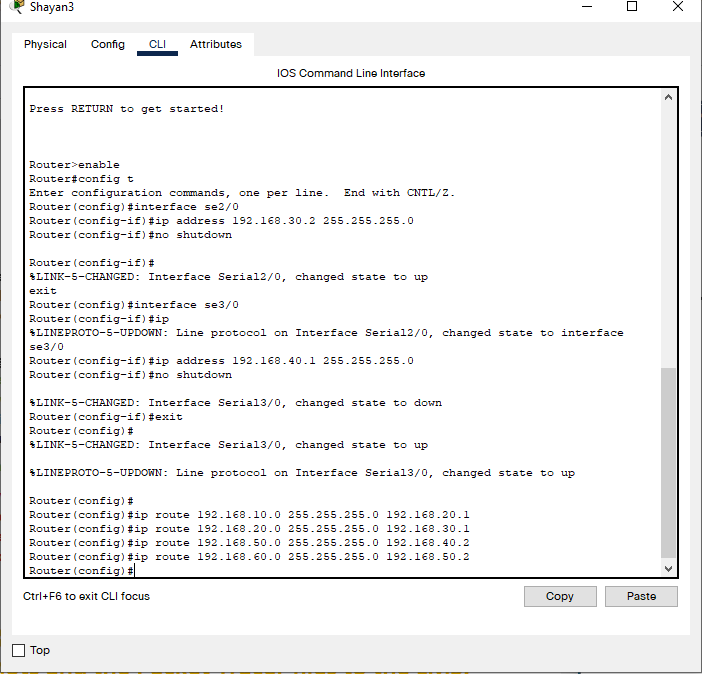
**Router #1 Configuration:**



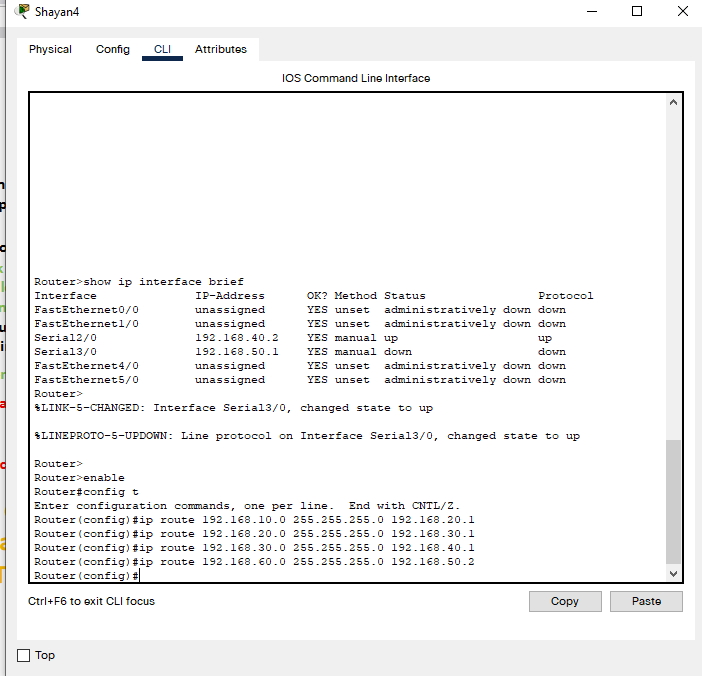
**Router #2 Configuration:**



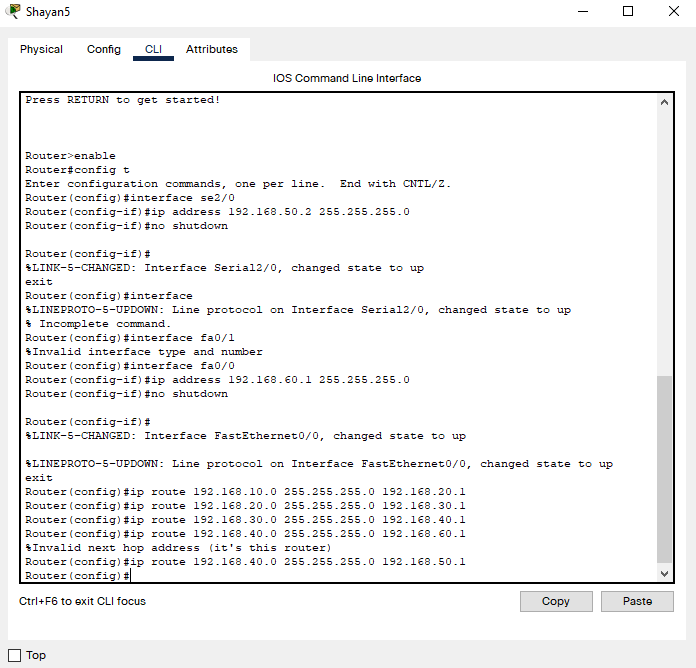
**Router #3 Configuration:**



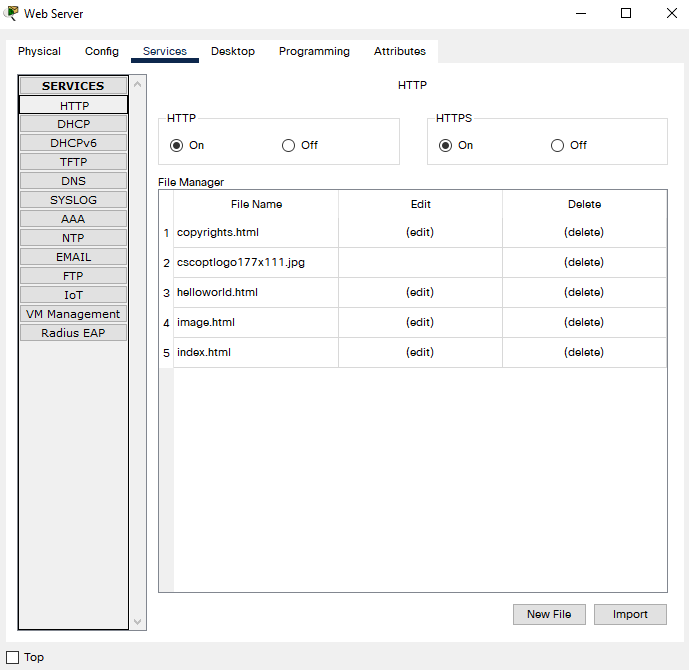
**Router #4 Configuration:**



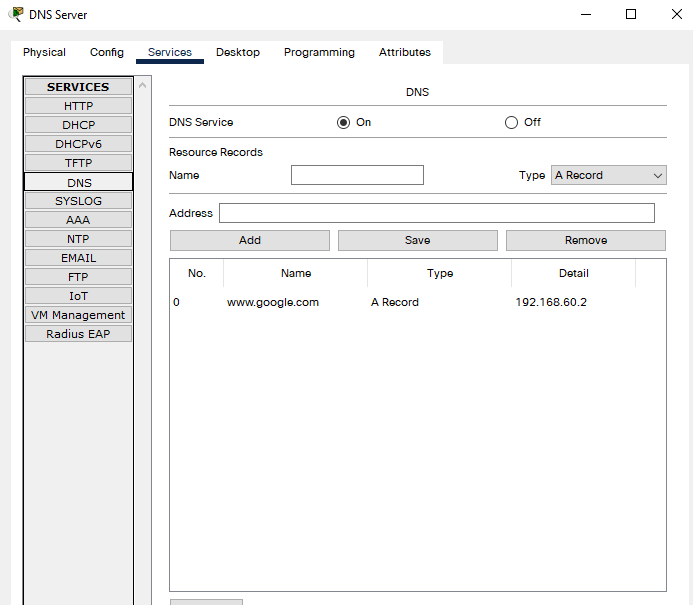
**Router #5 Configuration:**



**Web Server Configuration:**



**DNS Server Configuration:**



**Searching the Web using PC using Domain Name:**

