**Experiment 2: Executing Networking Commands in Command Prompt**

In this session, we will execute several key networking commands in the Command Prompt. These commands are crucial for diagnosing, configuring, and troubleshooting network connections:

1. **ipconfig:** Displays network configuration details like IP address, subnet mask, and gateway.
2. **tracert:** Traces the path packets take to reach a destination, showing each hop along the route. telnet: Connects to remote devices over TCP/IP, useful for testing connectivity to specific ports.
3. **netsh:** Configures and displays various network settings on your computer. ping: Tests connectivity to another device by sending ICMP echo requests.
4. **nslookup:** Queries DNS to find IP addresses associated with domain names.
5. **netstat:** Displays active connections, listening ports, and network statistics. These commands are essential for managing and troubleshooting networks effectively.