**Practical 1**

**Aim:**

1. Study of Network Devices in Detail
2. Study different types of Network cables and practically implement the cross-wired cable and straight-through cable using the clamping tool. (Refer VLab for this practical)

**Practice Task**: Demonstrate file sharing on windows and Linux.

**Objective:**

1. To know the basics of networking
2. To get equipped with hardware devices used in networking
3. To enhance skills related to the fabrication of cables.
4. Perform operations related to file sharing and network sharing over a particular Network.
5. **Networking Devices:**
6. Routers
7. Switch
8. Optical fiber
9. NIC
10. WAP
11. Wireless card
12. Gateway.
13. **Networking Commands on windows and Linux:**

|  |  |  |
| --- | --- | --- |
| **Sr no** | **windows** | **Linux** |
| 1 | Ping | Ping |
| 2 | IPConfig | ifconfig |
| 3 | Getmac | dig |
| 4 | HostName | host |
| 5 | NSLookUp | NSLookUp |
| 6 | Tracert | traceroute, iwconfig |
| 7 | Netstat | netstat |
| 8 | Arp | route, arp |
| 9 | SystemInfo | tcpdum |
| 10 | PathPing | tracepath |

**Quiz Lab 1:**  https://forms.gle/Ygi1AnNJiNN9PN3u9