**Day 1 ->Assignment -1.**

**------------------------------------------------------------------------------------------------------------------------------------------**

**Question:** Write some network terminologies:

**Answer:**

1=> IP Address: A unique numerical label assigned to each device connected to a computer network that uses the Internet Protocol for communication.

2=> Router: A device that forwards data packets between computer networks, typically to create an overlay network.

3=> Switch: A device that connects devices together on a computer network by using packet switching to receive, process, and forward data to the destination device.

4=> Firewall: A network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules.

5=> LAN (Local Area Network): A network that connects computers and devices within a limited area such as a residence, school, or office building.

6=> WAN (Wide Area Network): A network that connects computers and devices over a large geographical area, such as between cities or countries, using private or public networks.

7=> DNS (Domain Name System): The system used to translate domain names (like example.com) into IP addresses that computers use to identify each other on the network.

8=> HTTP (Hypertext Transfer Protocol: The protocol used for transmitting web pages over the Internet.

9=> HTTPS (Hypertext Transfer Protocol Secure): An extension of HTTP that adds encryption and security to data transmission over the Internet.

10=> MAC Address (Media Access Control Address): A unique identifier assigned to network interfaces for communications on a physical network segment.

11=> Bandwidth: The maximum rate of data transfer across a network path.

12=> Latency: The time delay between the moment a data packet is sent and when it is received.

13=> VPN (Virtual Private Network): A secure and private connection between networks over a public network like the Internet.

14=> SSID (Service Set Identifier): A unique identifier attached to the header of packets sent over a wireless local area network.

These are just a few examples; networking encompasses a broad range of terms and concepts crucial for understanding how data communication works in today's interconnected world.