**Assignment 1: Write all the network terminologies with examples.**

Network Terminologies with Examples:

Network Types:

* LAN (Local Area Network):

Connects devices in a limited area like a home or office. (Example: Connecting computers in a school building)

* WAN (Wide Area Network):

Spans a large geographical area, often using the internet as its backbone. (Example: Connecting company branches across different cities)

* MAN (Metropolitan Area Network):

Covers a metropolitan area like a city. (Example: Connecting hospitals and clinics within a city)

* VPN (Virtual Private Network):

Creates a secure tunnel over a public network like the internet. (Example: Securely accessing company resources while working remotely)

Network Devices:

* Router:

Directs data packets to their destination networks. (Example: Home router connecting devices to the internet)

* Switch:

Connects devices within a network. (Example: Connecting computers and printers in an office)

* Firewall:

Filters incoming and outgoing network traffic for security. (Example: Blocking malware and unauthorized access attempts)

* Modem:

Modulates and demodulates signals for data transmission over telephone lines or cable. (Example: Connecting a home internet connection)

Network Protocols:

* TCP/IP:

Suite of protocols responsible for communication on the internet. (Example: Transferring files between computers)

* HTTP:

Hypertext Transfer Protocol, used for transferring web pages and data. (Example: Accessing a website in your browser)

* HTTPS:

Secure version of HTTP, encrypts data for secure communication. (Example: Online banking transactions)

* FTP:

File Transfer Protocol, used for transferring files between computers. (Example: Uploading files to a web server)