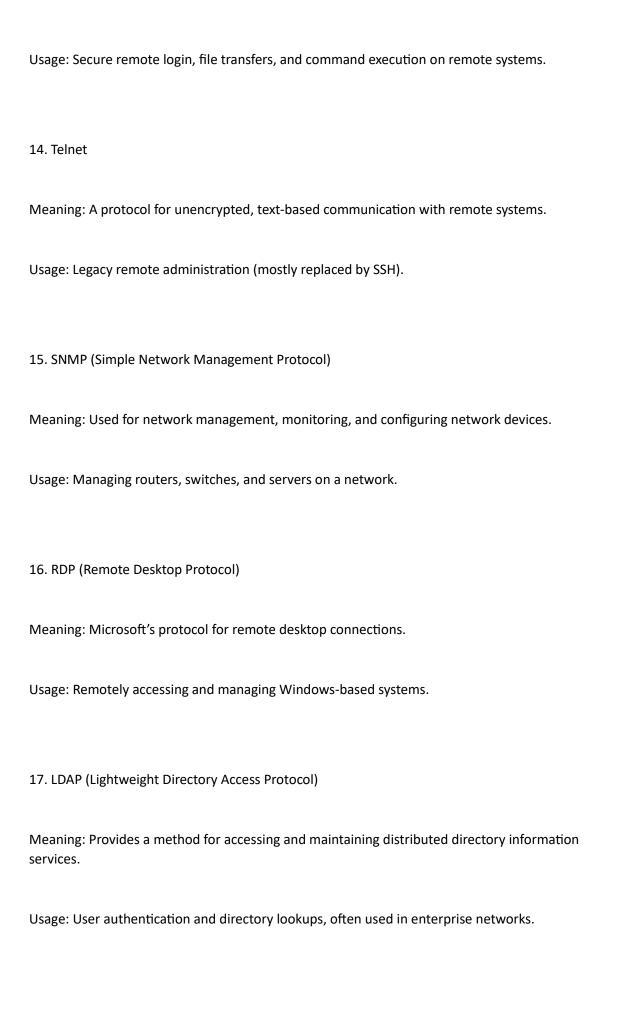
## ROSE OBIANUJU UDENSI

ASSIGNMENT
Twenty well-known computer protocols, meanings and typical usages:
1. HTTP (HyperText Transfer Protocol)
Meaning: Used for transmitting hypertext (HTML) over the internet.
Usage: The foundation of data communication for websites for browsing web pages.
2. HTTPS (HyperText Transfer Protocol Secure)
Meaning: An extension of HTTP with encryption for security.
Usage: Secured communication for websites, ensuring data integrity and confidentiality.
3. FTP (File Transfer Protocol)
Meaning: Used for transferring files between a client and a server on a network.
Usage: Uploading or downloading files from a server, commonly used for website management.
4. SFTP (Secure File Transfer Protocol)
Meaning: A secure version of FTP that uses SSH for encryption.
Usage: Safe transfer of files between systems, often used in remote file access.

5. SMTP (Simple Mail Transfer Protocol)
Meaning: Protocol for sending emails from a client to a server or between servers.
Usage: Sending and relaying email messages.
6. IMAP (Internet Message Access Protocol)
Meaning: Allows email clients to retrieve messages from a mail server.
Usage: Managing and accessing emails on a remote server without downloading them.
7. POP3 (Post Office Protocol, version 3)
Meaning: A protocol for receiving emails by downloading them to the client's device.
Usage: Email retrieval for offline access, commonly used in older email clients.
8. DNS (Domain Name System)
Meaning: Translates human-readable domain names into IP addresses.
Usage: Enables browsers to load websites using domain names.
9. DHCP (Dynamic Host Configuration Protocol)

Meaning: Automatically assigns IP addresses and other network configurations to devices.
Usage: Managing IP addresses on a network to prevent conflicts.
10. TCP (Transmission Control Protocol)
Meaning: Provides reliable, ordered, and error-checked delivery of data.
Usage: Ensures data packets are delivered accurately over the internet.
11. UDP (User Datagram Protocol)
Meaning: A connectionless protocol used for fast transmission without error-checking.
Usage: Streaming, gaming, and real-time applications where speed is critical.
12. IP (Internet Protocol)
Meaning: Defines how data packets are sent and received on a network.
Usage: Core of internet communications, routing data between devices.
13. SSH (Secure Shell)
Meaning: A cryptographic network protocol for secure access to a remote computer.



18. BGP (Border Gateway Protocol)
Meaning: A protocol for exchanging routing information between different networks.
Usage: Routing data across the internet backbone between ISPs.
19. ICMP (Internet Control Message Protocol)
Meaning: Used for network diagnostic and error reporting.
Usage: Troubleshooting and testing network issues (e.g., the ping command).
20. NTP (Network Time Protocol)
Meaning: Synchronizes the clocks of computers over a network.
Usage: Ensuring accurate timestamps for events, crucial in distributed systems.