**Write a short summary on common protocols HTTP, HTTPS, FTP, TCP, UDP**

**HTTP (HyperText Transfer Protocol):**  
A protocol used for transferring web pages on the internet. It defines how messages are formatted and transmitted, and how web servers and browsers respond to various commands.

**HTTPS (HyperText Transfer Protocol Secure):**  
A secure version of HTTP that encrypts data using SSL/TLS. It ensures privacy and security for data exchanged between a browser and a website.

**FTP (File Transfer Protocol):**  
Used to transfer files between a client and a server over a network. It allows uploading and downloading files but is not inherently secure unless used with encryption (like FTPS or SFTP).

**TCP (Transmission Control Protocol):**  
A connection-oriented protocol that ensures reliable and ordered delivery of data between applications. It checks for errors and retransmits lost packets, making it ideal for tasks like web browsing and email.

**UDP (User Datagram Protocol):**  
A connectionless protocol that sends data without error-checking or retransmission. It is faster but less reliable, often used in streaming, gaming, or real-time communications where speed is crucial.