**ASSIGNMNET - 6**

**Summary of Protocols:**

1. **HTTP (Hypertext Transfer Protocol):**

HTTP is used when you open a website. It helps your browser get the text, images, and other parts of the webpage from the internet. But it does **not protect** your data.

1. **HTTPS (Hypertext Transfer Protocol Secure):**

HTTPS is just like HTTP, but it’s **secure**. It protects your personal information, like passwords or credit card details, so others can’t see it. Most websites today use HTTPS for safety.

1. **FTP (File Transfer Protocol):**

FTP is used to **send or receive files** between computers over the internet. For example, web developers use FTP to upload files to their website. You might also use it to download files from a server.

1. **TCP (Transmission Control Protocol):**

TCP is a way of sending data so that it arrives **correctly and in order**. It checks everything to make sure nothing is lost. It's used for web browsing, emails, and downloading files—things where accuracy is important.

1. **UDP (User Datagram Protocol):**

UDP sends data **faster** than TCP but does not check if it all arrives correctly. It is used for video calls, live streams, and online games where **speed is more important** than perfect delivery.

**In short:**

* **HTTP** – Loads websites
* **HTTPS** – Loads websites securely
* **FTP** – Sends and gets files
* **TCP** – Sends data slowly but safely
* **UDP** – Sends data quickly, but may miss parts