**Module 1 – Foundation**

**1. What is HTTP?**

**HTTP** stands for **HyperText Transfer Protocol**.  
It is the **communication protocol** used for transferring data between a web browser (client) and a web server.  
When you visit a website (like https://example.com), your browser uses HTTP to **request** the page from the server, and the server **responds** with the webpage.

**2. What is a Browser? How does it work?**

A **browser** (like Chrome, Firefox, or Safari) is a **software application** used to access and view websites.

**How it works:**

1. **You type a web address (URL)** into the browser.
2. The browser sends a **request (using HTTP/HTTPS)** to the server that hosts the website.
3. The server sends back the **HTML, CSS, JavaScript, and media files**.
4. The browser **interprets this code** and displays the website on your screen.

**3. What is a Domain Name?**

A **domain name** is the **user-friendly address** of a website.  
Example: www.google.com

It replaces the numerical IP address of a website (like 142.250.77.206) with a name that’s **easy to remember**.

**4. What is Hosting?**

**Hosting** is the service that **stores website files** (like HTML, images, videos) and **makes them accessible online**.

A **web host** provides:

* **Storage space** for your website
* A **server** to deliver your site to visitors
* **Uptime and support**

Example: Companies like Hostinger, Bluehost, and GoDaddy offer web hosting services.