**Task: What is web server?**

* A web server is a combination of hardware and software that manages and responds to user requests over the internet. Its main function is to deliver web content, such as web pages, to users' browsers.

**Types of Web Servers**

1. Apache HTTP Server
   * Description: One of the most widely used web servers, maintained by the Apache Software Foundation.
   * Uses:
     + Hosting static and dynamic websites.
     + Works with multiple operating systems (Windows, Linux, macOS).
   * Key Features:
     + Modular architecture.
     + Compatible with PHP, Python, Perl, and other programming languages.
     + Extensive community support.
2. Nginx
   * Description: Known for its high performance and low resource usage.
   * Uses:
     + Handling static content, reverse proxying, and load balancing.
     + Often used for high-traffic websites.
   * Key Features:
     + Event-driven architecture.
     + Excellent at serving concurrent connections.
     + Integration with caching mechanisms.
3. Microsoft Internet Information Services (IIS)
   * Description: A web server created by Microsoft, optimized for Windows environments.
   * Uses:
     + Hosting ASP.NET applications.
     + Enterprise solutions on the Windows ecosystem.
   * Key Features:
     + Tight integration with Windows Server and Active Directory.
     + GUI-based management tools.
     + Secure by default settings.
4. LiteSpeed
   * Description: A high-performance web server, often considered a drop-in replacement for Apache.
   * Uses:
     + E-commerce websites.
     + Platforms requiring high-speed processing.
   * Key Features:
     + Built-in caching.
     + Enhanced security against DDoS attacks.
     + Easy compatibility with Apache configurations.
5. Node.js
   * Description: Not a traditional web server but a runtime environment that allows building custom web servers using JavaScript.
   * Uses:
     + Real-time applications (e.g., chat apps, streaming services).
     + Lightweight and fast server-side applications.
   * Key Features:
     + Event-driven, non-blocking architecture.
     + Highly customizable.
6. Caddy
   * Description: A modern web server focused on simplicity and automation.
   * Uses:
     + Deploying static and dynamic websites.
     + Quick setups with automatic HTTPS.
   * Key Features:
     + Auto-configuration and HTTPS.
     + Simple configuration file (Caddyfile).
     + Lightweight and efficient.