Homework 01/09

- **IP Address**

IP address is a unique string of numbers assigned to each device in a network that uses the Internet Protocol. It can identify the host or provide the location of the host.

- **Domain**

A domain is a human-readable version of an IP address.

- **What is DNS and how does it work**

Domain Name System translates domain names into IP addresses. The DNS deals with the exchange back and forth between name server and DNS resolvers to get the IP Address corresponding to the domain names.

- **What is CDN and why do we need it**

Content Delivery Network is a group of servers spread out over many locations. These servers store copies of data, like web pages, so they can deliver it to users more quickly.

We need a CDN because it reduces the distance between the user and the server, which makes website loading faster. It also protects against DDoS Attacks.

- **Client vs Server difference**

A client is a device that requests information from a server. The server is a device that provides information to the client. It holds data that clients may need.

- **what are restful APIs**

RESTful APIs is a set of APIs that computers uses to exchange information with each other over the internet

- **what http methods are there**

GET POST DELETE PUT

- **what are some status codes**

  - **200** means a request is successful

- - **401** means you don't have authentication credentials to do the operation

  - **403** means the server refuses to accept your request

  - **404** means there's no such thing the request is asking for on the server

- **What is semantic HTML? Give examples**

semantic HTML tags describe the role of the content in the whole page.

<header> <footer> <section>

- **What is meta tag**

meta tag provides basic information about a web page. meta tag provides details like page's description, author and keywords. it's not displayed but vital for search engines and web browsers.

- **what are html attributes**

html attributes provide specific information about html tags such as name, sources of images, and links.

- **what are local storage vs session storage vs cookies**

they're used to store data on a web browser.

local storage: persistent unless cleared

session storage: temporary. cleared once a browser session ends

cookies: small and manually set to expire. they're sent with requests

- **What is accessibility and why is it important**

web page with accessibility takes people with disabilities into account. it makes the web page open to every identity's use. lack of accessibility can cause legal troubles.