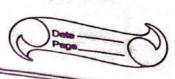# Ep_02

→ Server is an computer program that provid services to other programs or device usally refreed as Client.

★ for enample: When we type a URL into our browser your computer (Client) send a request to the server, which process the request & send a response (ex→ web page)

what is IP address?

• An Internet protocol address is a unique set of string or unique string of number usally seperated by dots (IPV4) or colon (IPV6) that identifies a device over a network

→ it is like home address for the device on the internet.

DNS

→ DNS stands for Domain name system that is when you type any string, it translate that human readable domain name (like enample.com) into IP address that computer used to identify each other

★ Working

→ An IP play an vital role in the communica-
tion b/w the server & client.

1. Client-Server Interaction

(i) When a client sends a request by typing
a URL into the browser, it needs to locate
the server that host the website or service.

(ii) Then DNS came into the picture. Like if
you type example.com the DNS convert
that into a 4 IP address like 93.184.202

2. Routing the Request

(i) The IP address act as an unique address
I dentifier on the server to directly request
a cross the internet to the correct server.

3. Response delivery

(i) The ctio server process the request &
sends back to the client, this is to be
maintained using the client IP address.