

Day-01

WEB DEVELOPMENT

Date: _____

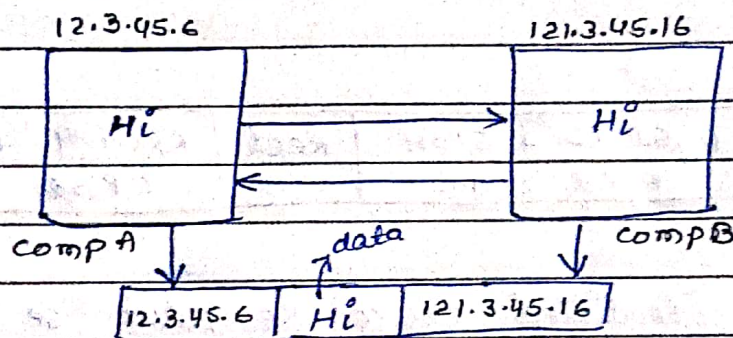
Internet

transfer of data.

↳ use to communication between devices.

How communication Performed?

↳ via I.P. Address



Note:

- * I.P. (Internet Protocol) Address is not a permanent Address.

ISP (Internet Service Provider)

↳ Provides I.P. Address

DNS (Domain Name System)

↳ I.P. Address of all websites present here

Mac Address (Medium Access Control)

↳ permanent Address

↳ Actual Address of Device / Physical Address.

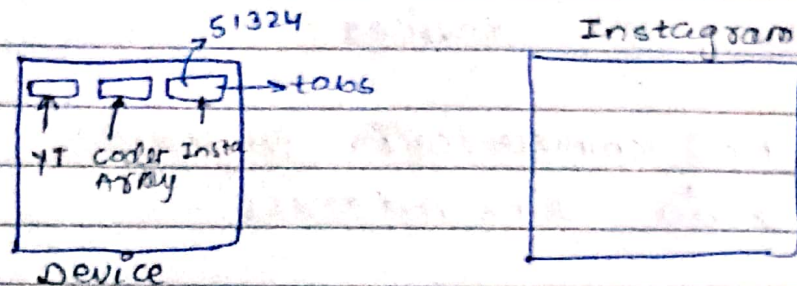
I.P Address
ke saath
Mac Address
bhi jata hai

I.P add + Mac Address

uniquely identify the
device

Date _____

Post Number : I.P. Add + mac Add + Post Number



Sender	+	S.MAC	+	S.Post	Reel	Receiver	+	R.MAC	+	R.Post
I.P. Add		Add		No.		I.P. Add		add		No.

* uniquely identified device ke koun se tab me data send karna hai " → Post Number.

http : Hyper Text Transfer Protocol → not secure
Hyper Text Transfer Protocol secure → secure

Format of I.P. Address

I.P.V4 : 32 bit

Ex: 12.34.9.8 Range → 0.0.0.0 to 255.255.255.255

$$2^{32} = 43 \text{ Billion}$$

IPV6 : 128 Bit

Format of MAC Address:

MAC Address: 48 - Bit Number

9mP

* Jitne tareeko se data transfer ho sakta hai utne no. of MAC Address hote hai.

Format of Port Number

Port Number : 16 Bit unsigned integer
↓ Always positive.

ex:-

Port No.

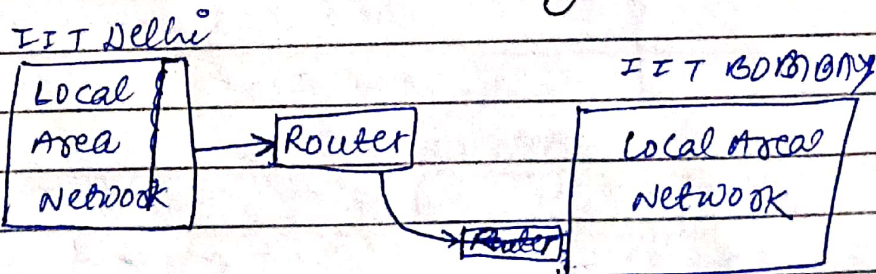
21: → FTP

53: → DNS

80: HTTP

443: HTTPS

HOW internet Actually works



chhote-chhote local network
connect hoke internet form
hota hai