

# ★ WEB PROGRAMMING ★

## BASICS

### ▪ Internet :

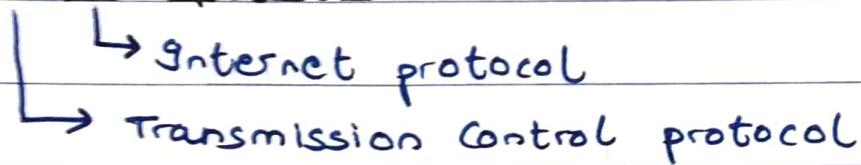
It is the network of networks.

It is the infrastructure on top of which all of today's applications are run.

### ▪ Routers :

Forwards data packets between networks.

### ▪ TCP/IP protocols :



IP → standardizes how computers address each other. (IP address)

→ DNS (Domain name server) : Naming system for resources connected to the internet.

TCP → Individual servers can do multiple things.

Port number → Integer that represents specific services.

(eg.)	80	HTTP
	443	HTTPS

▪ TCP also retransmits data in case the data is lost.

Note: The packets sent through the internet always take different paths.

➤ HTTP: HyperText Transfer Protocol

The world wide web runs on the internet.

HTTP comes with commands.

GET and POST

➤ HTTPS: Secure version of HTTP.

https://www.example.com/

↳ Contents are encrypted.

Domain Names: example.com

↳ TLD (Top level domain)

.com → commercial

.edu → educational

.net → network

.org → organisations

--- etc.

Eg) https://www.example.com/index.html

File name

## ① Request Example:

GET / HTTP/1.1

Host: www.example.com

...

## ② Status Code: ↴

HTTP/1.1 200 OK

Content-Type: text/html

301: Data is moved permanently to a diff. URL.

200: OK, here is the data you requested

HTTP/1.1 404 Not Found

Content-Type: text/html

...

302: Found

304: Not modified

307: Temporary Redirect

401: Unauthorized

403: Forbidden

418: I'm a teapot

500: Internal server error

503: service unavailable.

⋮



CURL: use an command prompt

② curl -I http://safety-school.org

Output: ~~301~~ HTTP/1.1 301 Moved Permanently

Server: Sun-ONE-Web-Server/6.1

Date: Sun, 27 Jun 2021 01:52:28 GMT

Content-length: 122

Content-type: text/html

Location: http://www.yelp.edu

Connection: close

### URL Parameters:

