DIFFERENT TYPES OF CABLES

pair cable: used in Ethernet networks, consists of pairs of solvers recisted together to reduce interference.

coith a central conductor with shielding.

the optic cable: uses light signals for high speed data treansmission and for long distance communication.

HDMI cable: Theansfers high definition audio and video signals between devices like TVs and computers.

usB cable? used for commecting peripherals like keyboareds,, mice and storage divices to computers.

Power cable: supplies electrical power to devices.

CONNECTION BETWEEN SIMILAR SYSTEMS

row over Ethernet Cable: Divertly connects two computers without switch of violet.

similar devices coithout a router.

wetcoth and Infracial: used for short-range wiveless data townsfer.

eller capie connection: order method for connecting two computers.

phoning between two computous.

CONNECTION BETWEEN DIFFERENT SYSTEMS

IPV4 to IPUB).

copper ethernet.

elhernet Adapter : Connects an USB olevice to a coloud inter

to communicate on the same hardware.

forms via the internet.

Switch:
A network device that connects multiple devices within LAN and forwards dala based on HAR addresses.

It's primary function is to improve network efficiency by divuding data directly to the intended divites, valueing congestion.

O) unmanaged switch: Plug-and-play no configuration required.

o) Hanaged switch : Allows configuration, monitoring and ULAN support. player 2 switch : coorks of the Data cink layer , forwards data based on MAC address.

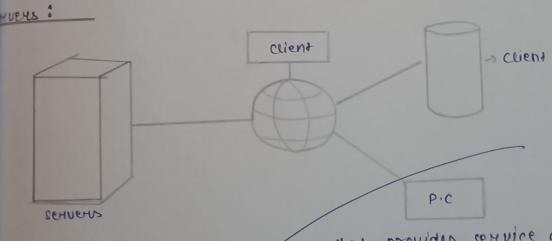
) layer 3 switch ? Has routing eapabilities work with IP addresses

- come coith multiple Ethernet ports. (eg. 8,16,24, 48

for security and efficiency.

and vuception.

page: commonly used in offices, data centers and enterprise neworks for structured communication.



Chenerally, a computer or system that provides service data, or sources to other divices (clients) over a network.

It's function is to manage processes and store dala, handling ouquests from clients.

Types of Server

genuer: Hosts and serves web pages to clients via the internet and intranet.

and forwarding outgoing mails.

in a distributed work.

who bane server; manages and store