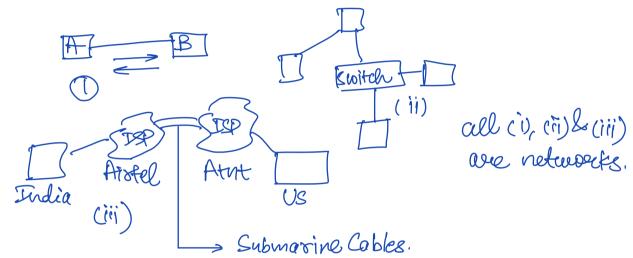
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- (1) Network Fundamentals:

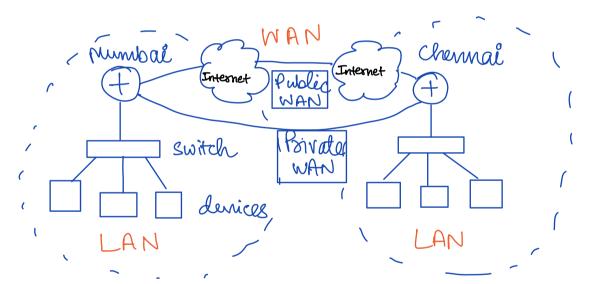


- · Network: when two or more computers are Connected to each other, shaving files & stuff- It is called notwork. - Any "host" connected together creates a network.
- · Host: Any device, that gets an IP Address us called a host. Eg: PC, Mobile, Servers. etc.
- Networking: shaving of data & info together is called "Networking".
- A the Process is "Networking" & the infrastructure is "Network"

## LAN → Local Area Network > 3 Industry tours

- · Router :- when you want to connect two or more different networks, you use nouters.
  - souter helps you to connect outside your network.
- Internet: It is network of notworks.

   Interconnection of very big/small notworks is called Internet.



WAN Private: A dedicated Calale. to connect the devices.

Public: When using a VPN

— i.e. when using public.

-i.e. when using public resources to connect locations.

Eg: Using Interent.

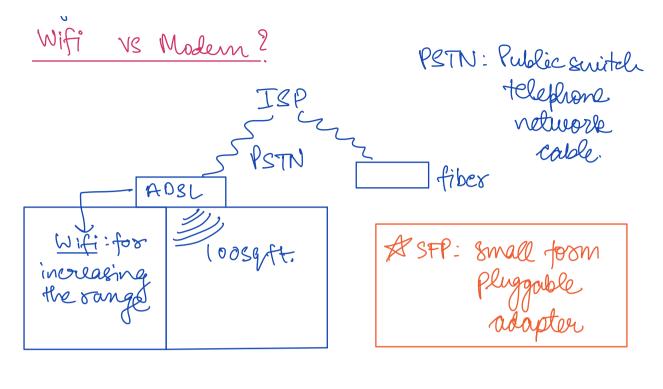
· Switch: A device used to connect two or more hosts/devices. Switches have B A various costs depending on the features Switch they provide Unmanageable suitch: - j'ust like a power extension, - same data shaved to every device, wether needed or not. - manageable suitch: (Professional)

- Many more features - VLAN ADSL = Atut/Aixtel > Router ADEL

Assymmotsic

digital

subscriber Routes+... Modern: Modulation Demodulation Device -Analog signals Digital ADSI\_ Signals



NIC:- Network interface Card

Wired NIC

wirels NIC

Bluefooth NIC

these NIC chips have MAC addresses.

- We use NIC chips to connect our derrices to the internet.
- Every device has NIC chips.