Application Layers protocols

- **В** НПР
- 2) File Transfer Protocol (FTP)
- 3 DNS
- (Internet Message Access)
- 3 DHCP

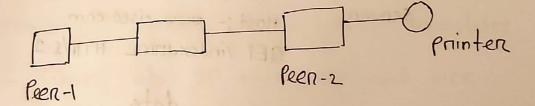
what is P2P?

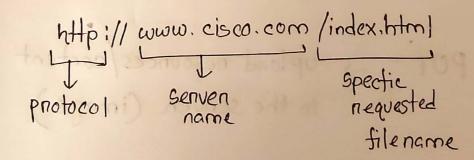
-) Peen to peen network, two on mone device connected

via network and can shane nesounces (printer, scanner)

tile

without having a dedicated server





what is HTTP? nequest/nesponse

-) It is a protocol that specifies the message type used for that communication. 3 common message type :-1 GET - a client (web bnowsen) sends GET message to servent to nequest for data on HTML pages. client Host; - www. cisco.com senven

GET lindex. HTTP/1.1

- → uploads file to the senven POST (form data)
- upload nesounces/content (3) PUT to the server (image)

Fmail protocol:
(port:35) SMTP (simple Mail transfer -> send email

protocol)

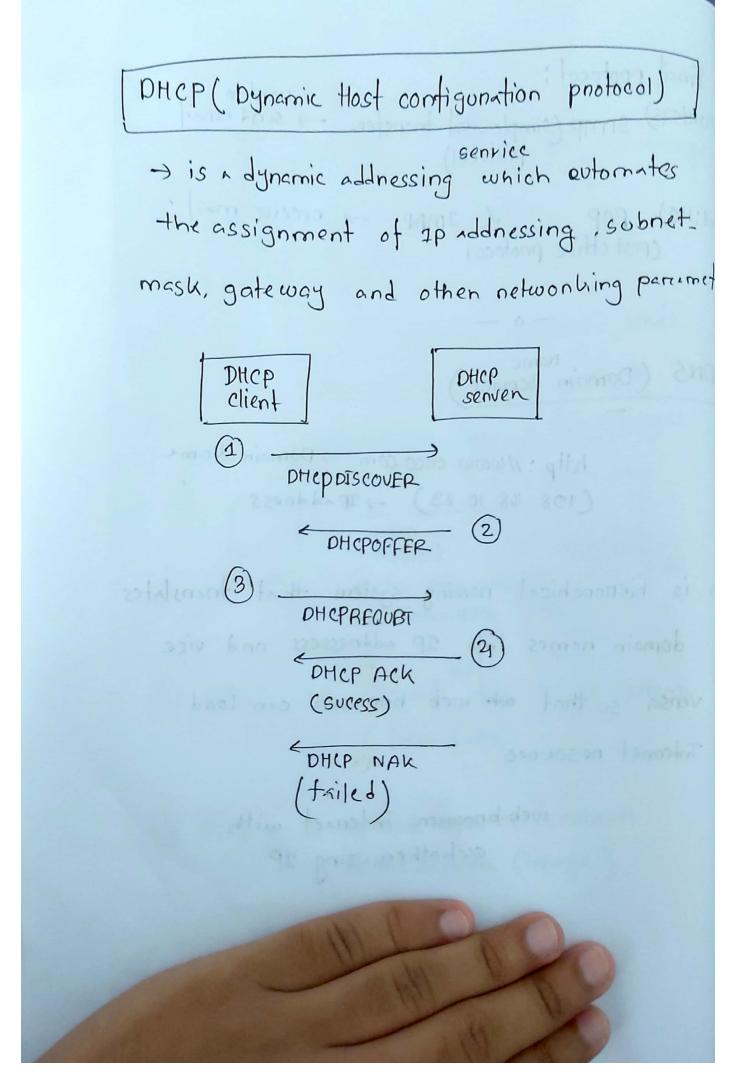
(pont:110) pop d IMAP -> neceive mail
(post office pnotoco)

DNS (Domain service)

http://www.cisco.com -> Domain Name (198.168.10.23) -> Ipaddness

one in hieranchical naming system that thanslates domain names into IP addressess and vice versa so that who web browsen can load Internet nesource

web bnowsen interact with each other using 1P



Types of Network Threats

- 1 Information Theft
- 2) Dataloss and manipulation
- 3 Identity Theth
- (9) Dos (Dispurer Disnuption of service)

Vulnenability

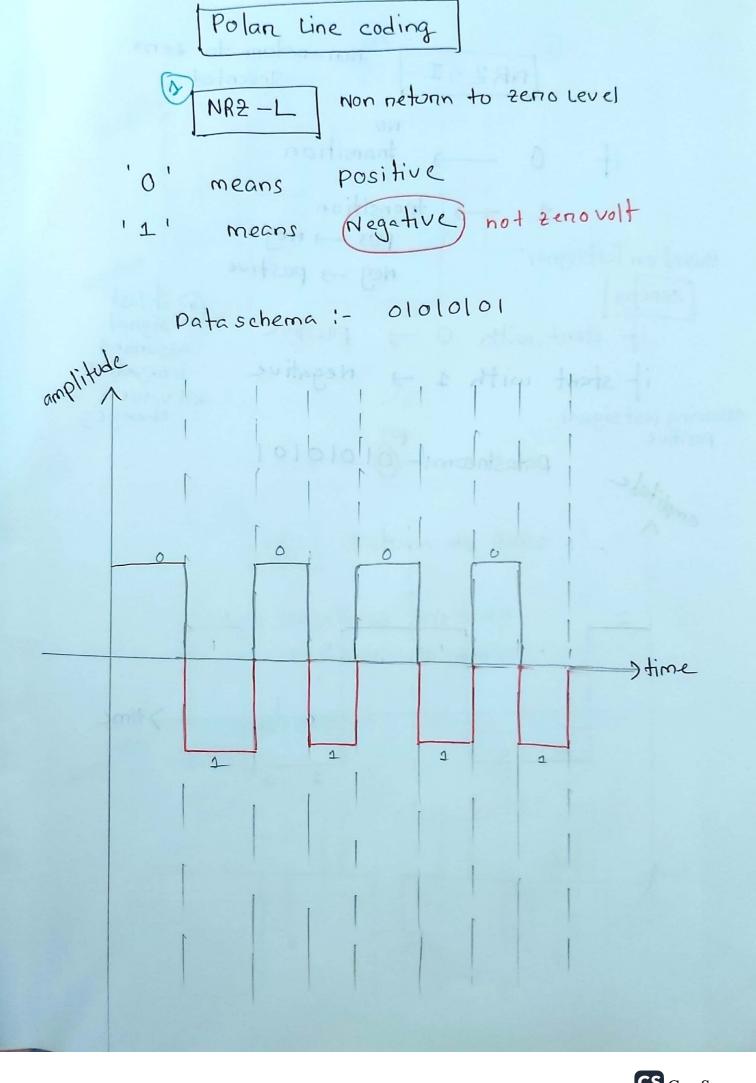
- the degree of weakness in a network/device
- 1 Technological Vulnenability
- 2) Configuration "
- 3 Security Policy

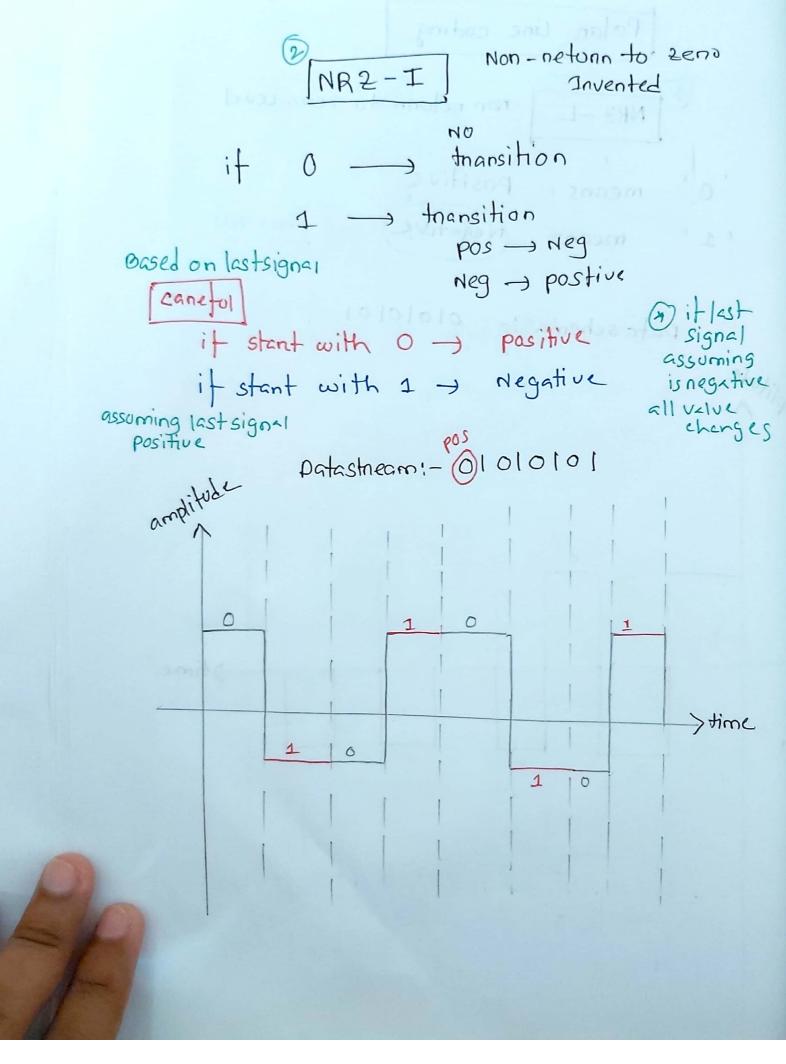
Ovestion

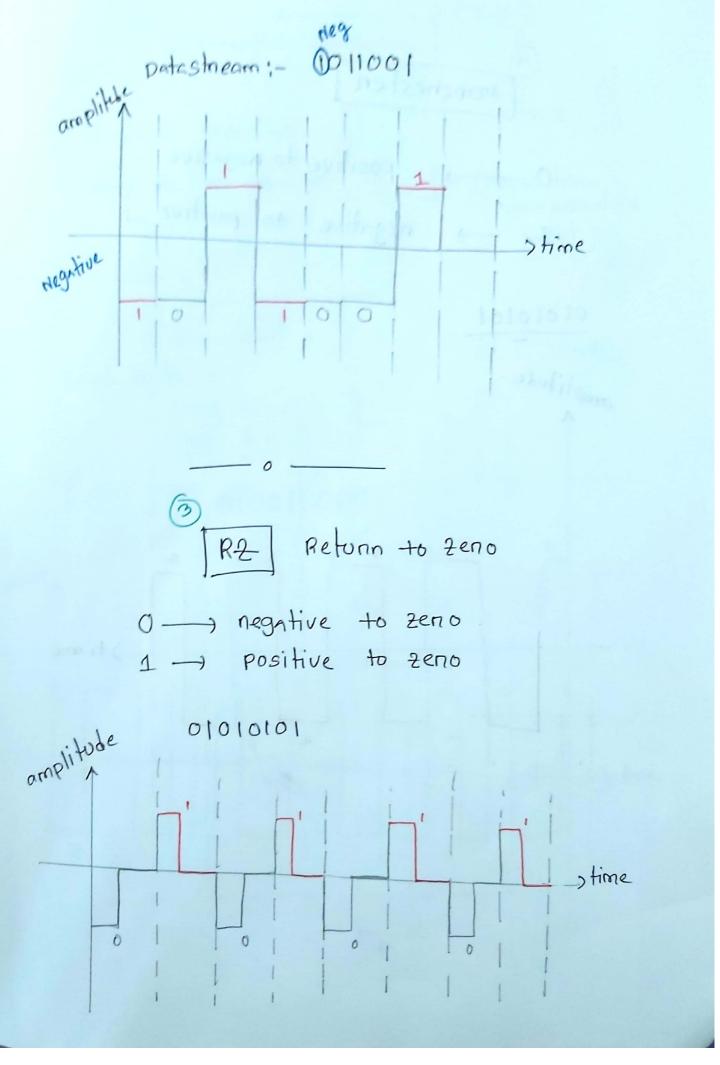
- 1) what are the components of data communication system? (5)
- 2) what is pnotocol?
- 3 what are the network components? (6)
- (9) what are the enitenic of efficient network (3)?
- (5) what is peen to peen network?
- (6) what is point to point network?
- Ans the following auestion ton Mesh, stan, RING
 - (i) connection type? Croint topoint on Multipoint)
 - 2 Defination
 - 3) cable No. / physical links
 - (9) number of port for each port
 - 3 what if a connection fail
 - @ unplugsing astation
- (8) a Hybrid topology with Ring backbone and 2 bus network

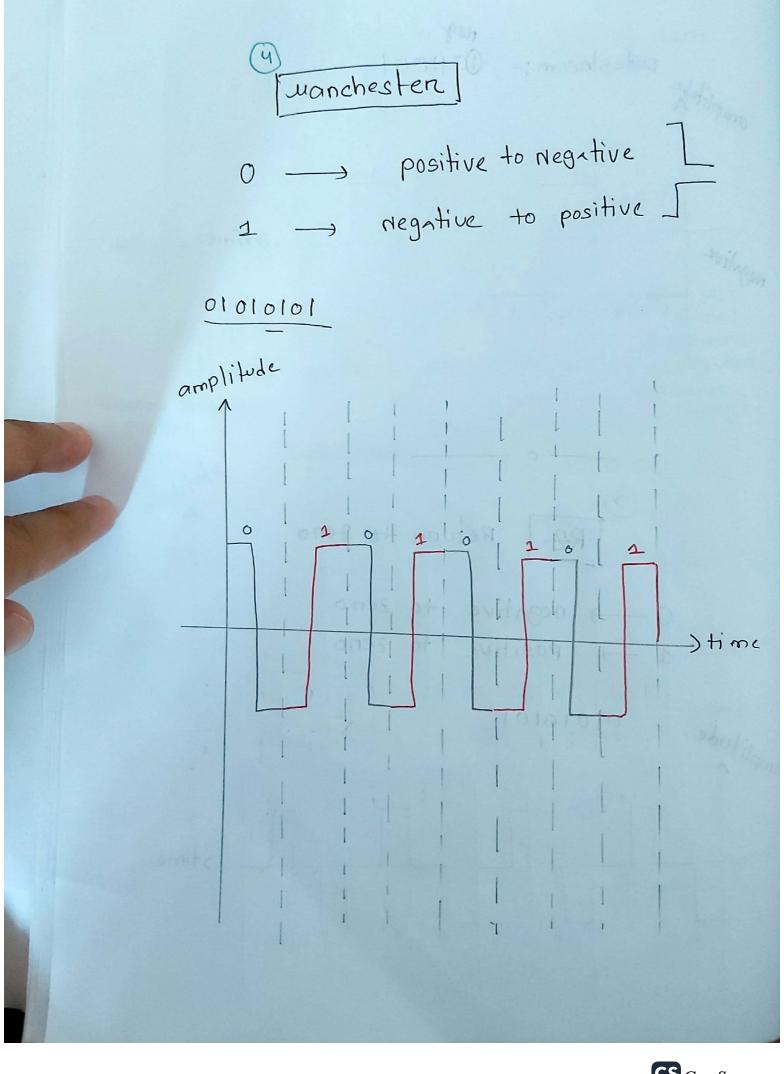
- (3) piffenence LAN US LNAN?
- 1/10) Piffenence Intranets vs Ettranets?
 - (1) 7 Layens of OSI Model?
 - (12) 4 Layers of TCP/IP Model?
 - (13) what is Multicosting?
 - (4) Difference between physical, Logical and pont address?

Line coding Unipolar line coding means zerro voltage [NR2] means 0 1 Datastneam: - 11011001 Amplifude 0) time









Differential Manchester (choose) 0 -> transition [] 1 -> No transition [[change form here according tolast if stant with 0 (low to high) Stant with 1 (post to neg)
high to low 1000110001 amplitude 0

Bipdan AMI (Alternate Mank Invension) IZ IT J O -> zeno voltage 1 -> Alternate last 1 bit - stants with 1 (postive) alternate amplitude 1 0 0 -) time 2) Pseduotennany 0 -> Alternate 1 -> zenovotlage 0 0 0

MULTILINE Transtition

MLT-3 Focus on voltage (not bit)

Rules:

Assuming

last level = Zeno Voltage last non zeno level = Negative

1) if connent [evel] = zeno, pos, Neg Next [bit] = 0

". No transaction (same likelest)

2) if connent [level] = zeno volt Next bit = 1

opposite of last nonzenolevel

(3) if connent level = positive on Negative Next bif = 1

Next 2000 voltage

