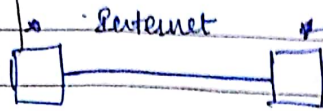
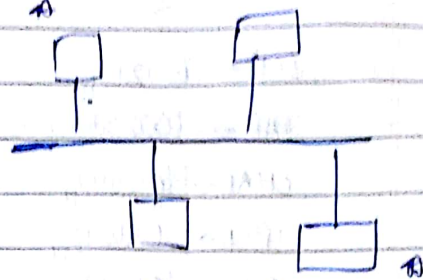


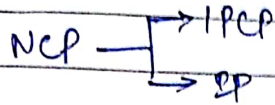
## Point to point access



## PPP



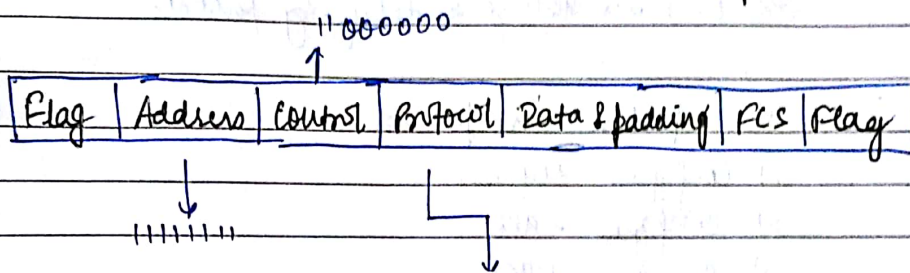
LCP



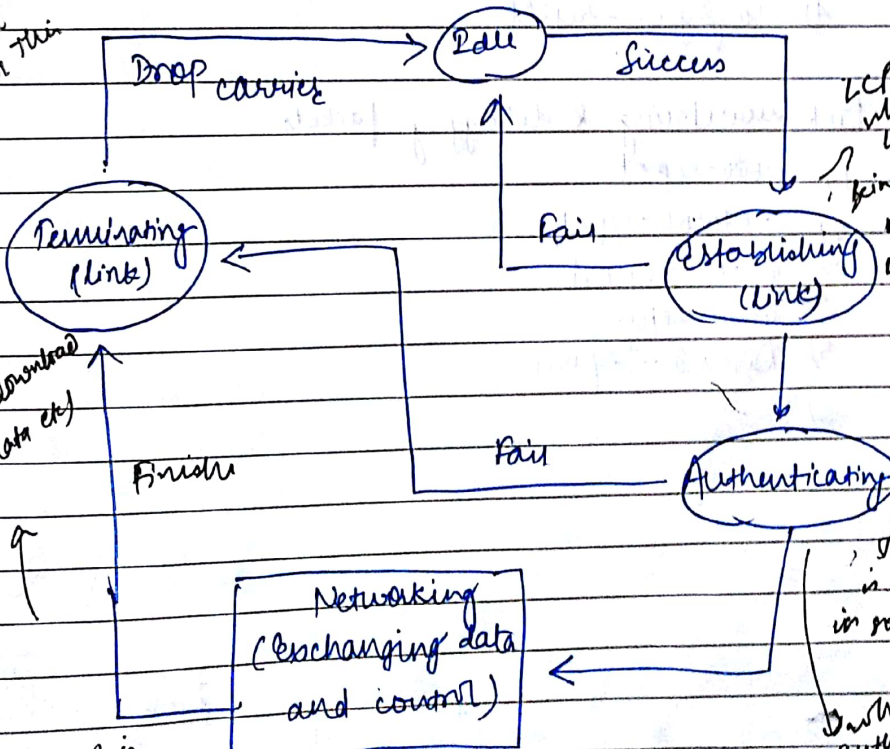
Internetwork protocol connection protocol

PAP → Password authentication protocol

CHAP → challenge handshake authentication protocol



(no separate protocol for this phase)



After IPCP (IP is used when data, shall data etc)

LCP is used when the link is being established when established LCP is used.

This phase is optional in some cases

When authentication is done, PAP is used CHAP is used based on what the server allows

State transition diagram of PPP

## Protocols of PPP

LCP  $\rightarrow$  (0021)<sub>16</sub>

PAP  $\rightarrow$  (0023)<sub>16</sub>

CHAP  $\rightarrow$  (002B)<sub>16</sub>

IPCP  $\rightarrow$  (8021)<sub>16</sub>

IP  $\rightarrow$  (0021)<sub>16</sub>

### # Link control protocol

- 1) Link establishment packets
- 2) Link termination packets
- 3) Link monitoring & debugging packets

### # Link establishment packets

- 1) Configure request.
- 2) Configure - ack.
- 3) Configure - nack
- 4) Configure - reject.

### Link monitoring & debugging packets

- 1) Code-reject
- 2) Protocol-reject
- 3) Echo-request
- 4) Echo-reply
- 5) Discard-request

~~6)~~