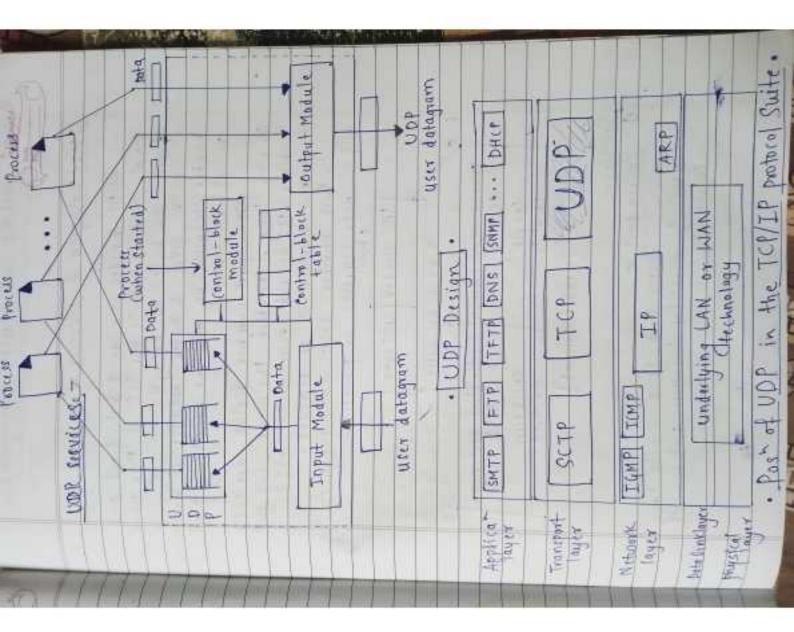
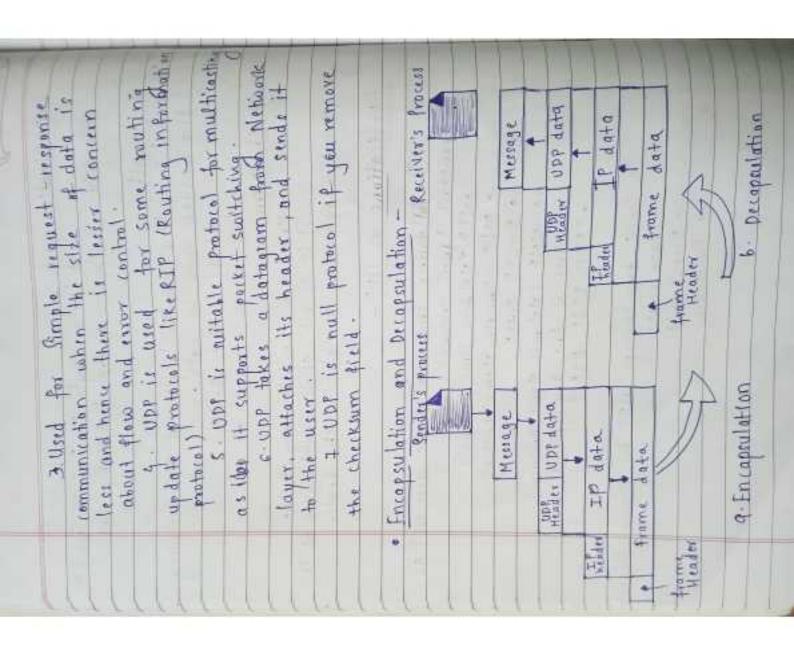
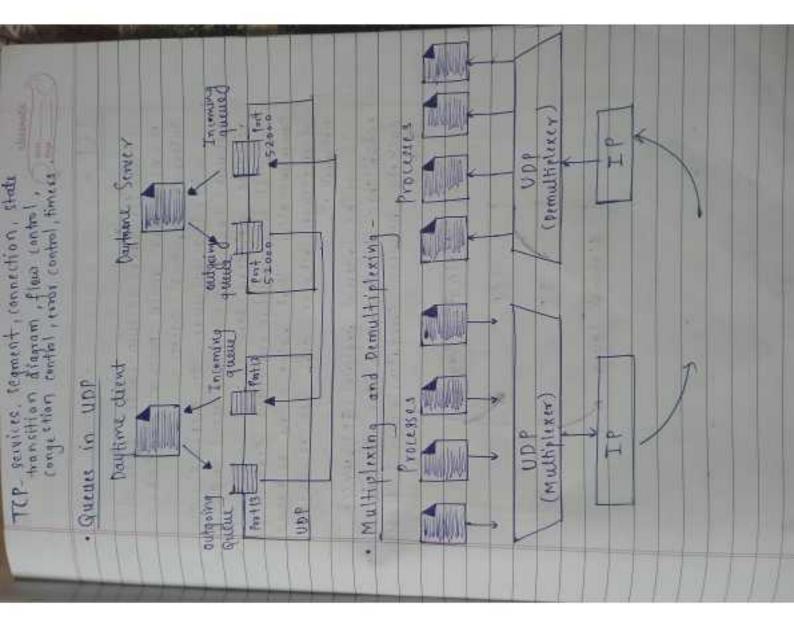
- Kansport aver -
. UDP - datagram, services, applications -
. User Datagram protocol (UDP) is a
Upr is a part of the Internet protected
suite, referred to as UDP/ It suite.
Connectionle se protecol.
connection prior to data transfer
and loss tolerating connections establish
-The UPP enabler process to pracess
Ceremonication.
Cervites like temputer gamino vanire or
video communication, litte conferences; we
- Since high performance de nordel
UDP Permits packate to be droped instead of
THE COVES Rouding date
1. It is mon afficient in terms of

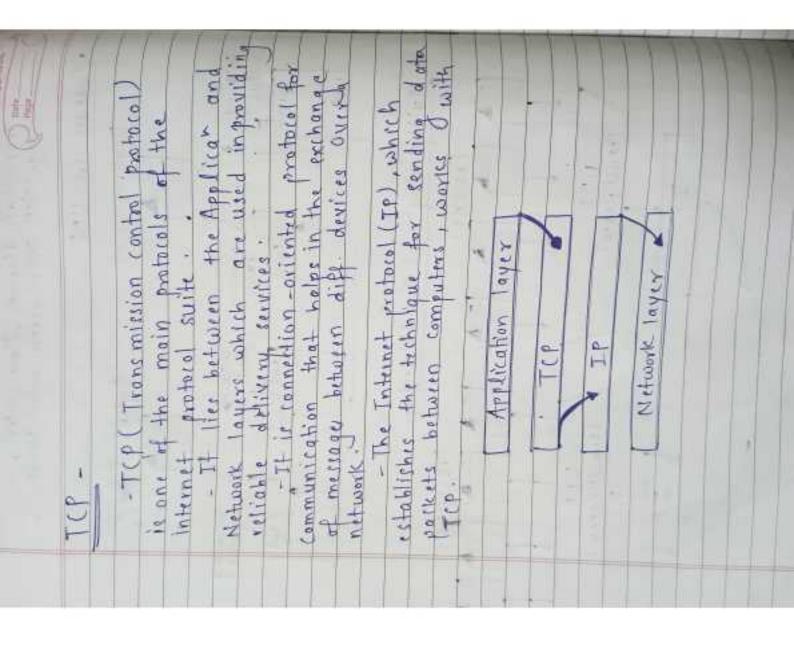


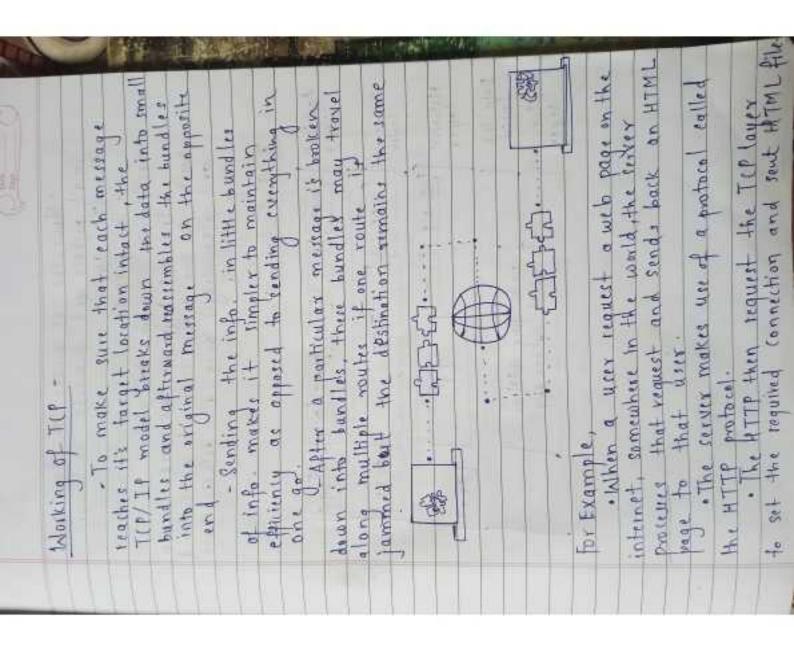
0	or UDP parkets, ceutled User Datagrams
	User Datagiom & suvices -
	- Upp header is an 8-bytes fixed and
	From 20 by her to 60 by her tontains all necessary
	header information and the remaining part
	Cansist of data p. 14c and carte
	part number tillas
	number is defined from 0 to 65535
	- port number 0 is reserved .
	- Part number helps to distinguish
	differ were requests of processes.
	(100 Header   1100 John
	8 +0 65,535 hytes 0
	16 1 32
	Starte port number Destination post number
	(6 bits - 1
	16 title uite
	Header format
	Continue of the continue of th
	1 Course boxt -
	to Identify the part humbers of
	Source.

2 Destination port  It is a 2 byte long field, used to identify the port of the destined packet
3. length - length is the length of UDP including
It is 16-bit Pield
4. Checksum - Checksum ic 2 bytes lang field.
one's complement sum of the UDP header.
Applications of UDP -
1 Fellowing implementations uses UDP as
oNTP (Methoork time protocol)
* ROOTP DALP
ONNP (Network News protocol).
OTETP RISP RIP -
Task done though UDP by applica layer
· Retord route
Timestamp
The second secon









	9 9 9 9 1	destination through diff coultes  and seknoledges once all packets have been received.
K [IGMP] ICMP] IP		[FTP] [TCTP] [DNS] SNMP.
4	XX W	ying IAN ox
	tayer	

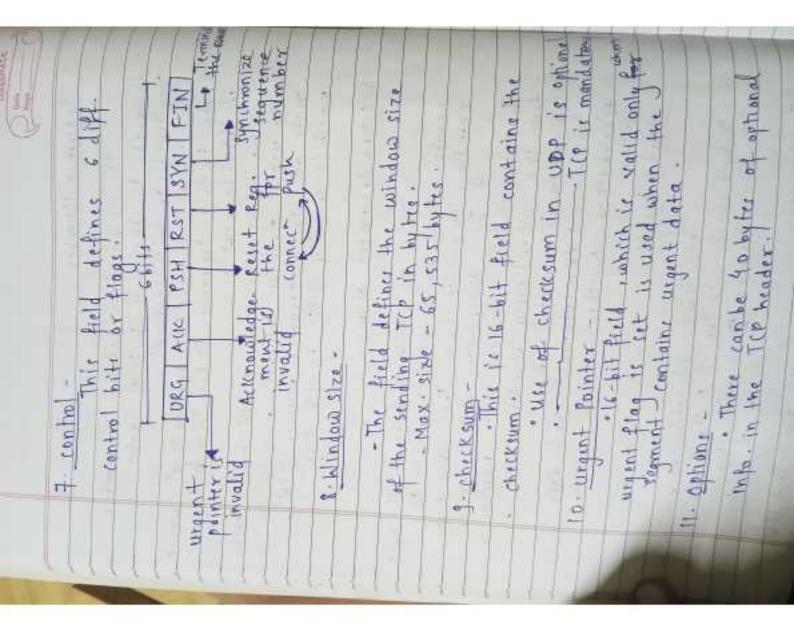
**Sequence Number of sequence number of segment number of segment header of segment number sequence on the segment header of segment number of the segment number of the segment number of the segment number of the chasses on arbitary number behaveen of the the butter have been numbered.  **Sequence Number of a connection number of segment that is being seent first butter of data.  **The sequence number of the first butter of data.  **The sequence number of the first butter of data.  **The sequence number of the first butter of data.
---

shows the number of first byte carried
number defines the number of the next byte
the no. of next bythe thatthe party expects
The value of the ack. field in a segment defines the number of the next byte a
DEITHE Control
an error central mechanism.
Case or corrupted segments), come control fs
A TATAL OF THE PARTY OF THE PAR

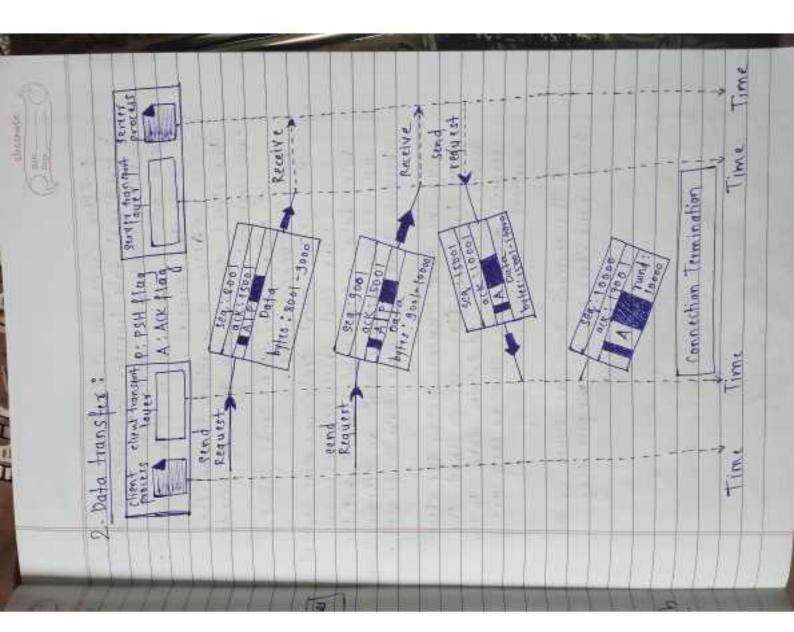
	The state of the s	3) Flow control.	data con be accepted from the sending process; to be sent by sending TCP.	6) (engestion control - 0 Tip, unlike 100p toker 12th account	tengestion in the nettwork.  If not only controlled by the receiver but it, also determined by the level efficiency if any	PEGMENT -	A packet in Tip is called sogment.	The format of a segment is as followses-	2.0 to 60 bytes, followed by data	The header is 20 bytes if them are no options and up to 60 bytes if it
--	--	------------------	---	---	--	-----------	------------------------------------	--	-----------------------------------	--

8.6. to 60. by Pri	Header Data	Segmen	10 31	derree (6 6145	Requence Cumber	Acknawledgement number	HLEN RENE O A P RSH Window cize	ens an	b. Hander	Source part Address -	This fort no.	In the hast that it sending the applica from	1 3 6	- Posthogtion fort Add	1	Serves steering	addness in the	NOW STATE OF THE PARTY OF THE P
			7											6	神		To last	

1011	
1	3. Sequence Number
11	divigined to the first by to of data
11	Contidined in this segment. The segment which
7	in this segment
	party uses o random humber generator to condition in that sequence number (ISN).
	4. Acknowled gement Numbers -
	number that the receiver comment is
	expecting to receive from the other porty
	from the other party it returns & +1 as
l c	the acknowledgement number. Acknowledgement and date can be
0	Piggybacked together.
	5-Header length -
	4-byte words in the TCP Header
	length - 20 to 60 by the
	6 - Reserved - 6-bits teserved for futene cese.
I	THE PRINCE OF THE PARTY OF THE

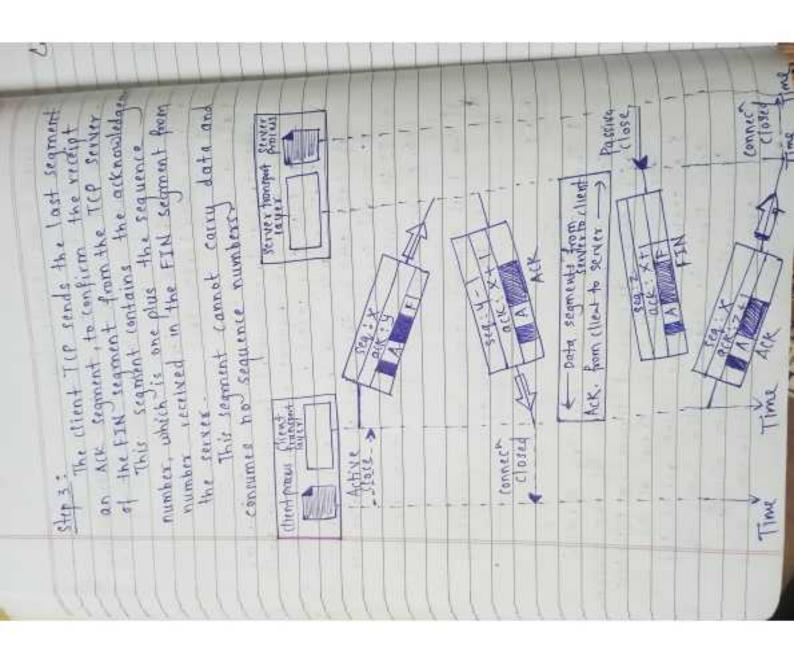


d-shaking-	Toward towards	to establish a connection with a server.	Esynchronize sequence Number Tobich information convex that the client is likely to	start communication and with wordt	A SYN Segment connot conzy data, but is consin	Server responds to the client	of the regiment it received and Syn	lightlife with what sequence number it is likely to start the segments	A SYNTACK Comment to	data, but doce consume one sequence		the response of the servier and they bath establish the actual data transfer which they will that	Am ACIK scament 17 cm
There way Hand shaking	Stora (SYN):	to edullish	Soil sends of	Start Commu	A SYN Segmen	Service Line	of the segment	Providition with the Land	A SYNHACE	data, but d	shr 3 (ALIC):	the response of the serve of the serve	An ACK SEGMEN



	bidirectional data transfer can take place of the client and serves can tend
	The client tends 2,000 bytes of data in
	bytes in one segment.  The client sends one more segment
	both data and acknowledgement, but the last regiment carries only an acknowledge.
	Laver Tipe data seament Sent by the client server Tipe thies to deliver data to the tree sections process gas soon as they are
100	other hand does not set the push flag.
1	

Carried Annual Carrie	data can close the connect although it is usually initiated by the client	Three way handshaking:  Three way handshaking:  1 o In a cammon situation, the client TCP, after  rectuling a close command from the client pacess  send: Other first regment, a FIN regment in	A FIN seament can include the last chunk of data sent by the client or it can be just a control segment.  If it is only a control segment, it consumes only one sequence number.	The FIN segment Consume one sequentimber	Segment informs its process of the FIN sond seement a FIN+Acte grament, a FIN+Acte geoment, to confirm the receipt of the	Seme Home to announce the closing of the connection in the other direction.
400 d	o p p p p p p p p p p p p p p p p p p p	THE THE PARTY OF T	A . A . A . A . A . A . A . A . A . A .	* The I		



L. Constitut Donat
- Connection Never
request, may about an existing learner by may terminate an idle connects.
Denying a Connection-
requested, shay about on evisting cornect, or
a connection to a nonexistent post
@ Aberting a connection-
tonnect due to an abnormal shustion It can send an BST segment to close
3 Terminating an Idle Connection -
0 -
end the connect send an RST Segment to
DIED TO THE PARTY OF THE PARTY

The fla Shows -
and server combined in one diagram
8. The transit from one State to another is shown using directed lines
5 The first string is the input, what
TEP sends.
fig. represent the transit that a server show the transitions the solid beack lines show the transitions that a client namelly
Hearsthon through a solld line or a client transitions a solld line or a client
The state marked as ESTABLISHED states that the client and server

