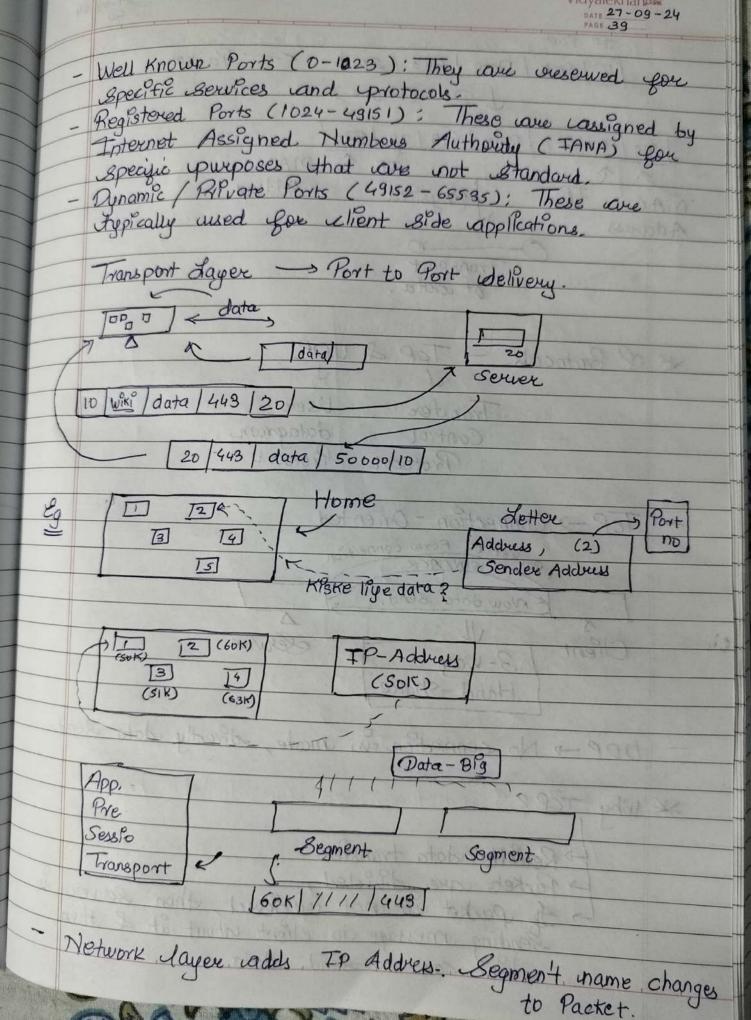
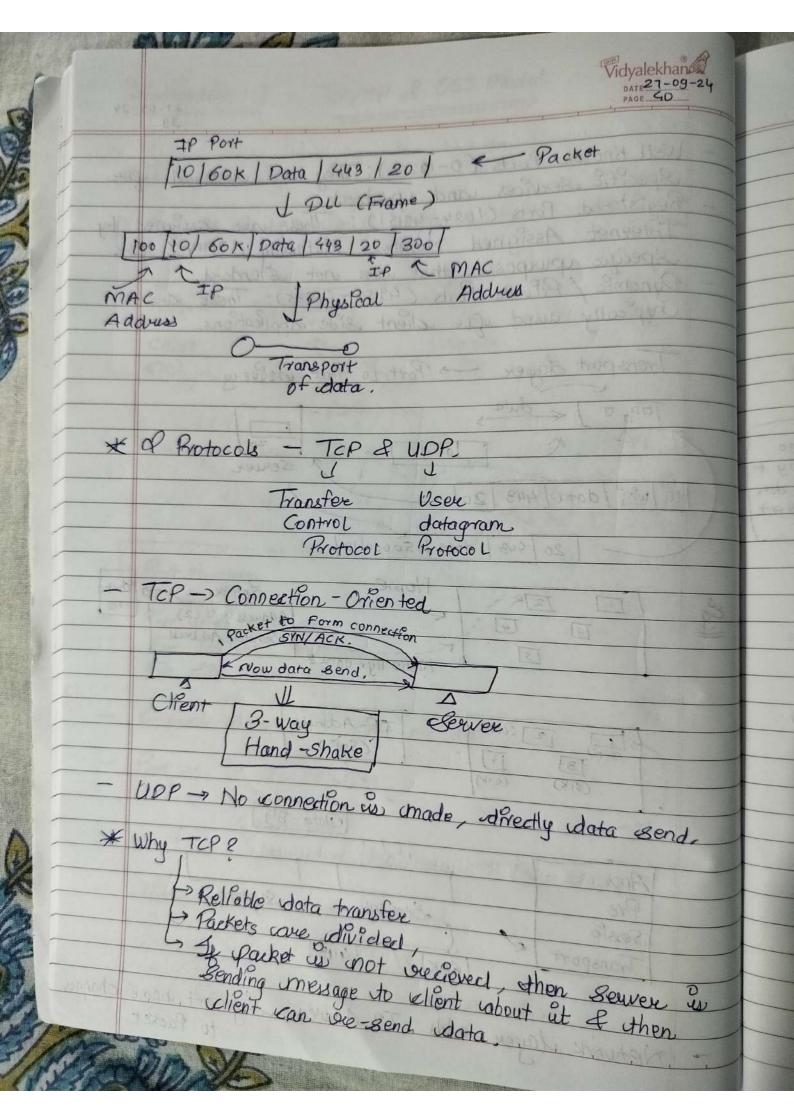
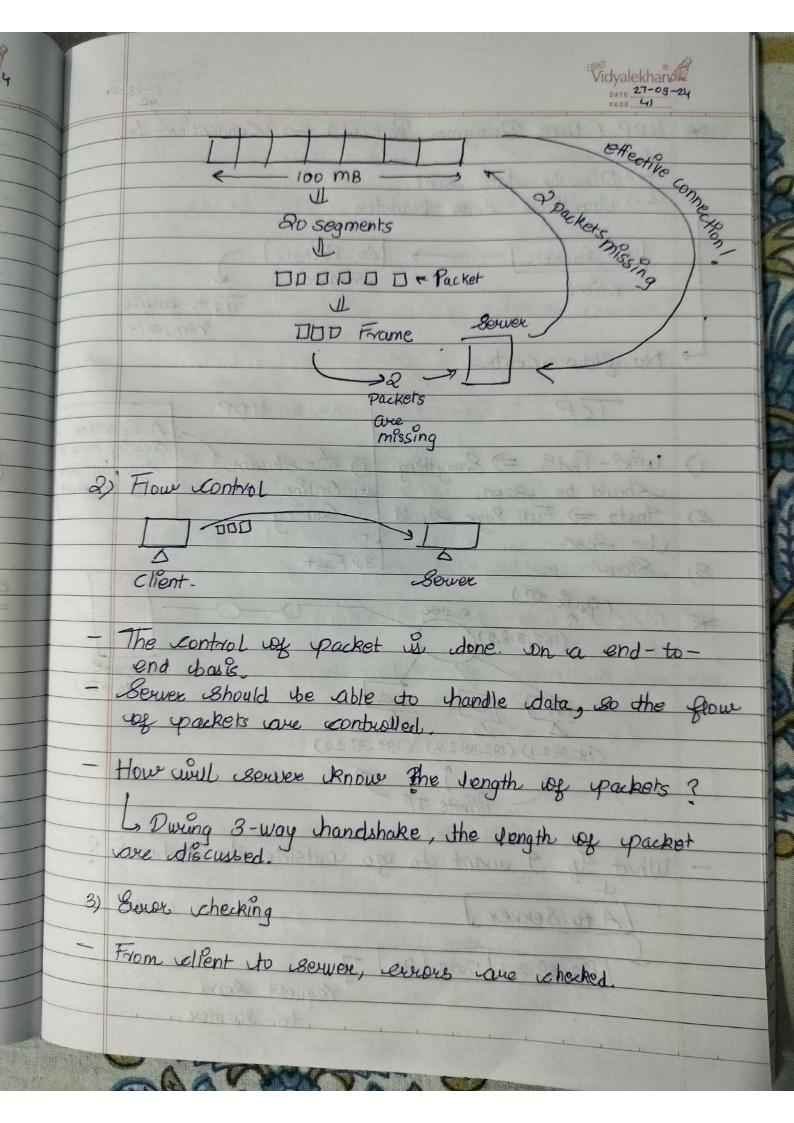
1	Lecture - 9 - TCP/IP & OSI Model Vidyalekhan
	PAGE OF
	Janto 2 Marine 1 Marine 2 Mari
	* Transport Layer
	End-to End delivery / Port to Port delivery.
	Bibb yalson ear SALEST To tot A
-	Data Data
1,9	CIPENT Server  19 Ke (20
41111	hep se data
donne	Scorieve hua.
_	You open many Tabs wiki [Data]
1 1000	YouTube
2035	Live Kis ke
	class / Lige hai?
	Port Number
7	Port Number
	For Wiki, port no.
	For YouTube, Port no.
	For Live, port no,
	Vo male data méi port no bhi oventa cha?.
_	Post un a chai.
	Port up. 4 vog 16 voits.
	216 yout no
	9pnovato 1 -> 0
	generated → 65536 → [0-65535]
	Some pot no are reserved
h	we oreserved.
h	ttp:40 2
1	thp: 40  Hps: 443  Seg. et wen known Ports,
01	28:53 July Well Known Ports





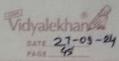


1	Vidyalekhanos
	PAGE 42
*	UDP (User Datagram Protocol) -> Connection-Less.
	of state of the land of the la
	- Directly data sent.
	Unrellable idata duansfer
	The second secon
	100 Packets - 3 (80 Packets)
	Constate
	Hy 10 Harper
	request
4	No Ober Control
	No flow control.
	TCP UDP
	Audio, Video
1)	everything 1) alvestream low but the
	Should be seen. In Online
2)	Insta => Full Page Bhould Gaming
	be seen
3)	Slow 3) Fast
	(Public IP) Router
*	Router D
	(162,3.8,2)
	towns be laston to
-unDal	TATE TO Server
1 1 1	(30-)IP)
	(192,98,2.1) (192,38.2.2) (192,38.2.3)
9	1 (192,38.2.3)
	CALCALLY NORTH AND
4.0	Private IP
1	13 days and and 1
	What If I want to last a last
	(A to Server)
	192.38.2.1 Data 30 7
	request sond
	request Bend
The same	to owntere
13	The River

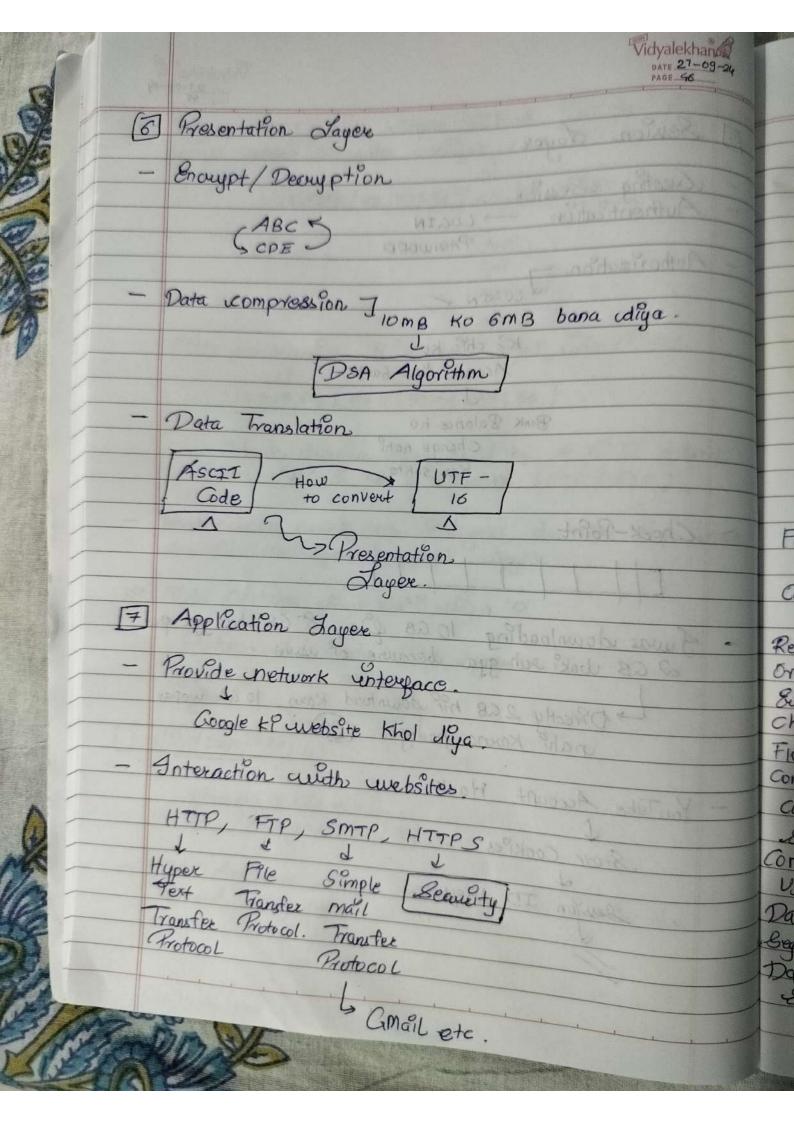
DATE 27-09-24 PAGE 43
Now ownter will change from private to public
IP Address
[182.3,8.2] Data [30]
[182.3,8.2] vara / 50)
Now, seewer with idata x sieplety.
Now what is multiple identices what to connect with server.
Land Land Land
DIAT
(Network Address Translation)
(182.58) 50K Data 80 30
Port no.
- Routex was unide con 3 days don't as this
La Now, router will change IP address of A
[162,3.8.2 50K Data   80   30 ] - 1
1102,51012 Soll   Dala   Sol   Sol
Now, B device also wants to connect at same time,
Almost A and
[192,38.2.2   50K   Data   80   30
Sended to Router
Router changes to Public IP
100 00 1 1818100 1 0to 01 181 181
1162-3.8.2   50K Data   80/30   -> (2)
Non Poly 1911
Now, server seplied both.
How Router will decide bet A and 8 ?
1 mas s
NAT ~> Takes help of Port Number

ソ

Now, NAT will store IP & Port no. & occuter will store allocate unique, no. 16.3.8.2 62K | Data | 80 | 30 ] 50K got replaced dones in take a comment Then how will '8' device get udentified. [162.3.8.2 | 51 K | Data |80 | 30 Now, orouter wan isend to A & B based on (A) & (B''s number (57K&62K) Router wan uvork con 3 layers, cout in this case, scouter can go transport layer. \* MAC Address Ryu mani diya? L) Adds un Wata-Link Jayer. Touter MAC Address 1 1/1/2 Data D.IP 2 Now on 2 address
[2] IP/Data/DIP/3] mac Address keeps changing, ut can't be e of gest of another



4-10-13	DATE 27-09-24 PAGE 45
	Janata northinassan 191
5 Session Layer	
D) COSTOTO STATE	milta pure la
- Questina Section.	
- Queating Session - Authentication -> Loc	IN
PAGE	SUIDED.
- Authorization JLOGIN	
LLOWIN ~	T of Bergmon + Co
THE STATE OF THE S	
Kis chiz k	
Access	tar Sakta
4	
Bank Balance	
	e nah?
Kars	sakta
16	1 travinos on 1 abis
- Cheek-Point	
	Topograph Company
- I was downloading 100	is file, 8 as thoo gya par
2 GB baki such gya be	require of vising.
Dreetly 2 as his u	downtoad Karn In CB
unahi Karena and	town toad Karo, 10 GB wapas
just	J
- YouTube Account Hack	down with and -
J. Track	THE CALL STORY OF THE STORY OF
Store Cookies	0-107
al al	THE STATE
Session ID theyt	9
2 2011 +D theft	Hunex File Swelly
11	test transfer much
	to acted transfer
	Carried Carried



		DATE 27-09-24 PAGE 47
1		
-	N/w Transparency - 1 that. Internal awarking	Iseve to Sirf VI se umatlab Risiko pata nahi uhala.
	TOP/IP Model	OSI Model Theofitical model
	Application Layer ? Presentation Layer ? Session Layer	Application Layer  Transport Layer  N/w Layer  N/w Access Layer
	Transport Layer Network Layer	
	Data-Sink Layer 3/	TCP/IP Mode
	OS I Model	
Feature	8 TCP	UDP
Connecti	on Connection - Oriented	Connection - Jess
010,00	(3-way handshake)	(no-handshake)
Reliability		Umeliable
Ewron .	Ensures spacket wider	No-ordering of packets.
Checking	Ever checking with	Basic ower wheeking
	Yes (vadjusts based con	C but no convertion)
Congestion	untu conditions)	No flow or congestion
Control	1 22 101111 2.03)	CCCTUALLE
Speed	Slower due to upverhead	Frister due to los
Common	Web browsing, email,	Faster due to less voverhead Streaming, Gaming, DNS, VOIP
Use	F91e-Transfee	VOIP VOIP
Data	Breaks Idata Into	Sends clata cas undependent
Segment ati	on <u>segments</u>	dotagrams.
Data Size	Supports yarger	Typically used you small
286	idata spackets	Typically used for small, quick idata packets.