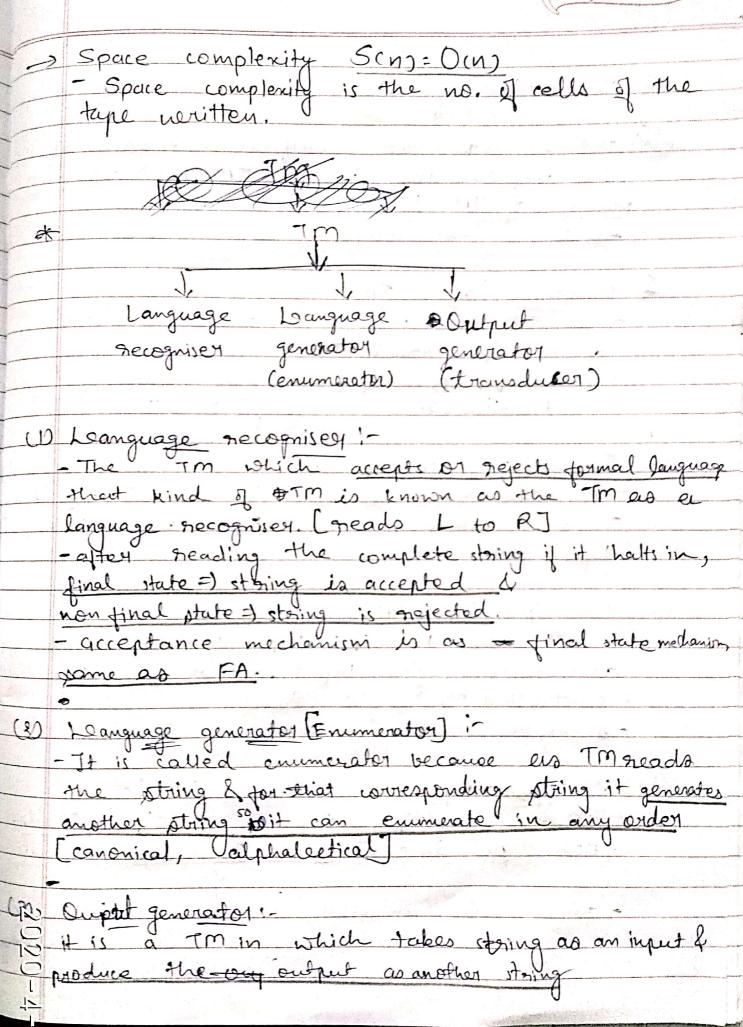
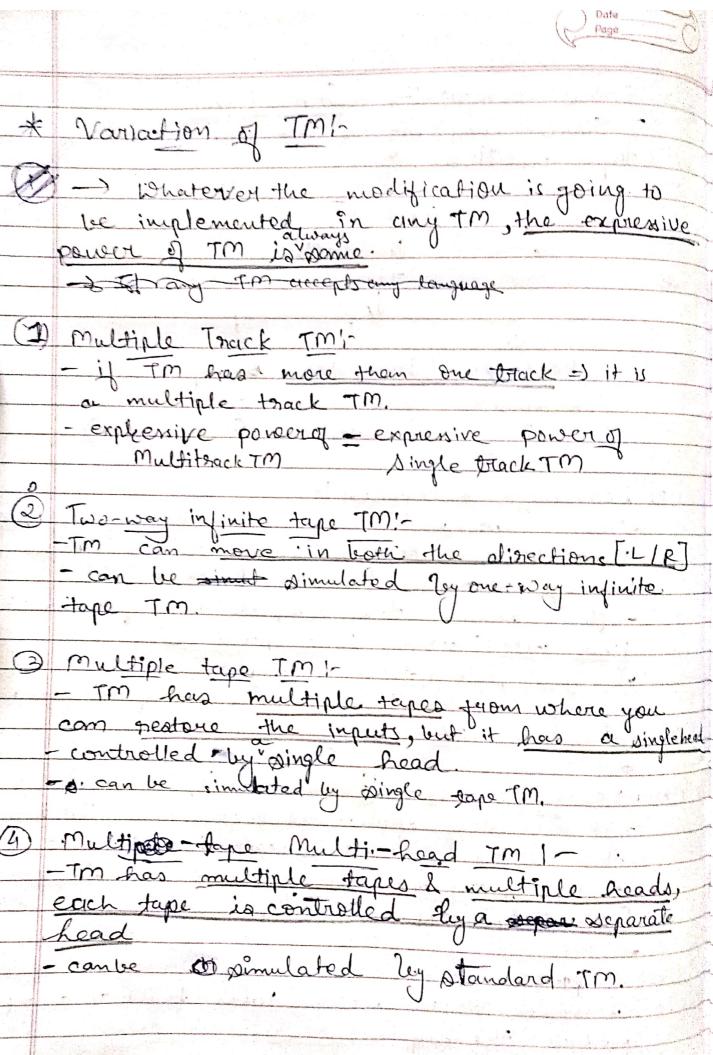


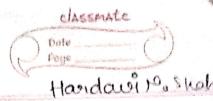
->	IN PPA C	as string ends there	by must be tassacte	
			Data Page	
_ =>	Infinite tale consists infinite cells on which it contains they symbols & head pointer			
to make the same to the same t	after compl	eting the othing	ing the string lag symbols come which string is currently being read & can wife	
TMY	1117 consists of + tupples			
	(1) Q: finite set of sot states  (3) T: + tape alphabet, The alphabets which are			
	used in the tale			
	3 Bir blank symbol  (5) Sirinput alphabet			
1	© 8:- QXT. → QXT X 2 L, R 3 · 1 ~ Right side			
	· 1 Reght side			
	Ledt ide			
	(6) 90 f-; nitial plate F) Fir plat pet of final state			
X)-	The plate			
XIM	= FA + Data structure			
-*	Comparison			
	Automata"	: Stack Data structure	Determanistic/	
	FA		Non Deterministic	
	PDA	No data structure	Deterministic	
	1m.	Infinite Tape	Non-Deterministic	
ak	TM:		Deforministic	
	7 '200 100 100			
	= Time complexity ((n) = O(nlogn)			
	the number of times the the measure of			
- <u>0</u>   2	Time complexity T(N) = O(nlogn)  Time complexity refers to the measure of the number of times the tape moves when the machine is initialized for some input symbols			
	" mpur symbolo			
77			Scanned by CamScanner	

Scanned by CamScanner





## FACPDALTM



(5) Multi-alimensional Tape & TM:

The has multi-dimensional tape where

frank a head can move left/right/up /down

an lee simulated by one-dimensional TM

(6) Multi-head TH TMI
TM has two of more heads to great the

symbols on the same stape.

In one step all the heads sense the scanned

symbols & move be neitle independently

can be simulated by single head TM.

- has a single, one way infinite tape.

- you a given state & input symbol has one choire to move, each coir choice from soveral choices of path that it night tollow you a given input string.

- A non deterministic TM is equivalent to deterministic TM.