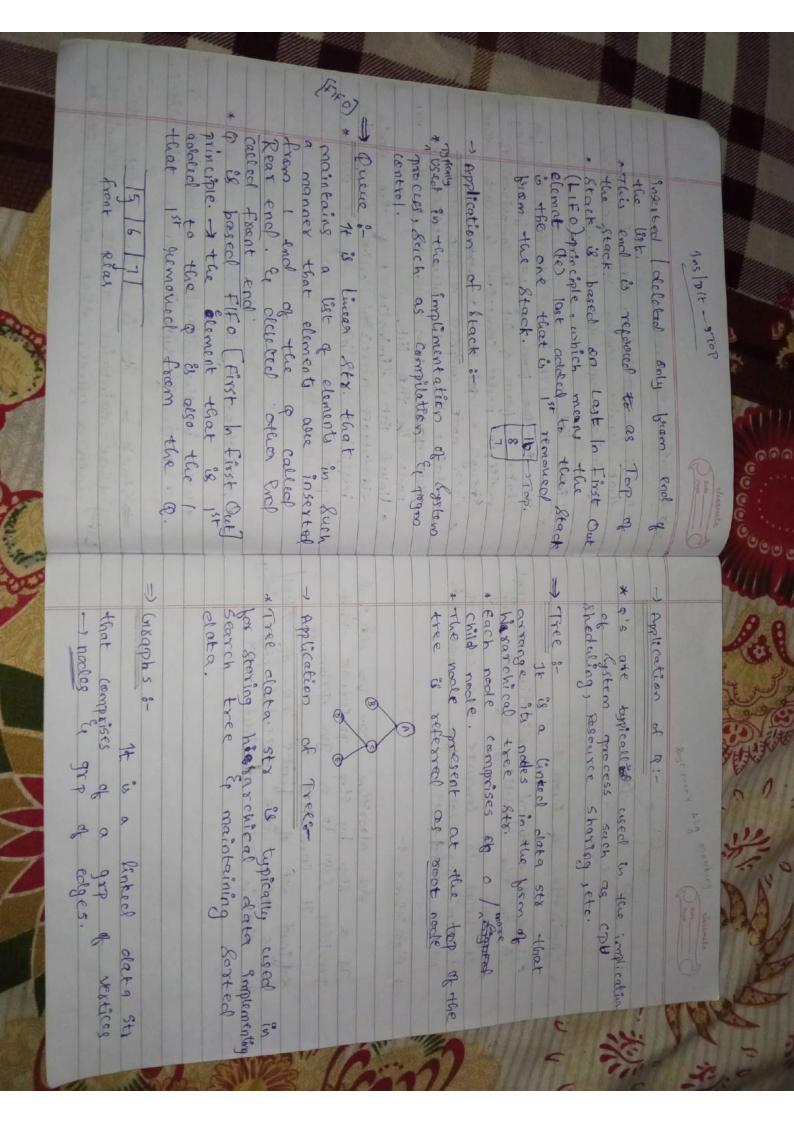
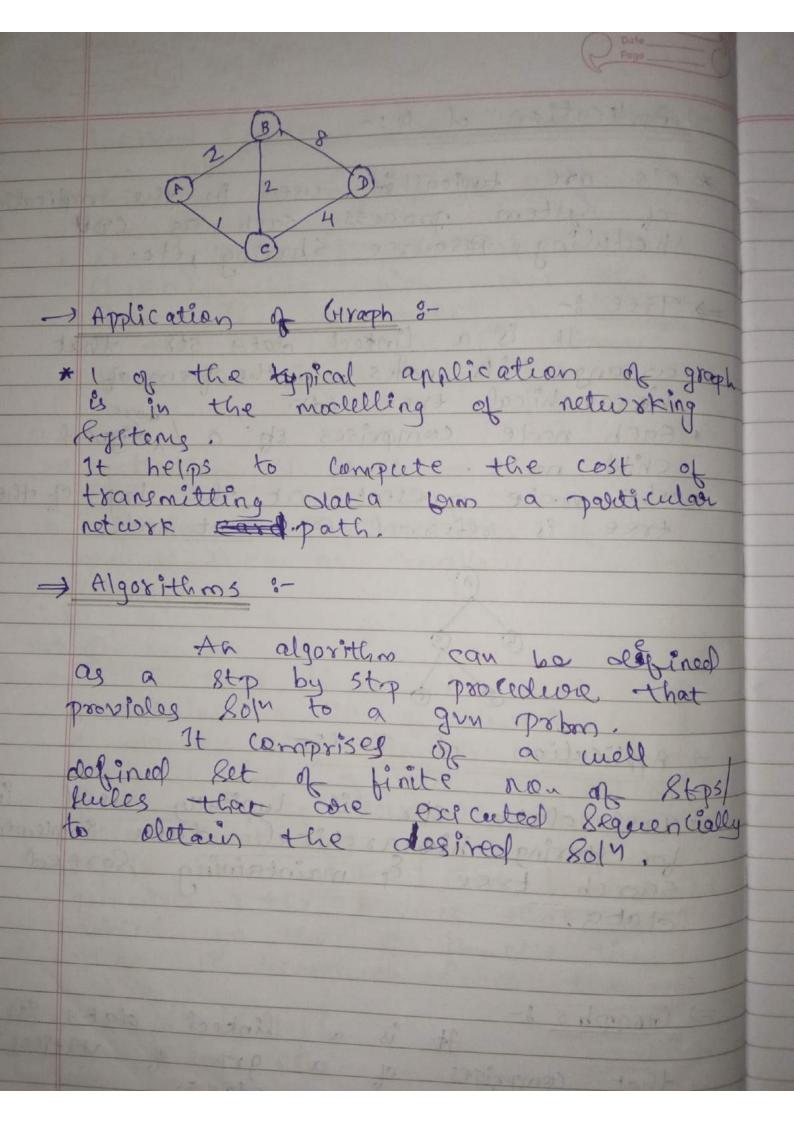
Tree, Great. 01 : ELEMENTARY DATA ORGIANISATION. + Data: - Datas are simply / Set of values. * Data item :- Single unit of clata is data item. * Coxp item : Data items are divided into sub grps. * Entity :- It is something that has certain attributes which may be asseigned values. - Entity set := 10 may postable it to has a feet An Entity with Similar cettibate * 00233190 (E -) Entity set. * Information: It is meaning ful processed data. * Field :- Single elementery unit of Information Representing an attribute of an Entity. * Records :- They are Collection of field values and give entity * File :- They are collection of succord of the entries entitles of a givn set. -> Definition of Data structure :- 1 10x1000 * It is the specialised format of organising, sufreiving and storeding data. * eg - Arrays, Stack, quene, Tree, chraph. Algorithms are used to manipulate the data containing in these D.S. excluse order - [asending / Desending -> D'S operations: 1) Traversal -> Defined as the process of visiting energy element of a D.5 atleast

Const.		discounts.
* This operation is made commanly used	elemnty of 2 Dis.	THE WALL SHAPE
the Elements Stored in 7:5.	- Date type Vs Dis :-	
	William Towns	The state of the s
an painten that indicates the crat	Patabye	Data Structure.
ottempt of Dis at being processed.	* It is the Kind form of a	It is the calledian of
	mind is which is being	different kinds of
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extented by solding new elemnt, thus	* Implimentation through	I mplimentation through
process - Ins:	do tabyles is a boson of	T.5 18 -3 Concrete
3) Deletion :	alistract implimentation	implimentation.
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	not data, so it is	type of data.
3	data less.	District in
M	The state of the state of	
Enols up in suchucing	* values can assectly be	The thredata is
of Dis.	assigned through to	assigned to Dis
4) Search :-	and the state of t	algorith sis.
The moress of lecating an elemnt		C
not returning its index	* No Prom of theme	Time complexity comes
The state of the s	Complexity,	into play thecho
Later Annual State of	30	wrking with D.5
s) Sorting s-	The state of the s	The second second
The process of arranging the		100
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specific order. Lasknowing Desending by	Prince: And Poro	No. of the latest of the lates
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6) Merging :- passon -: pained (3		and non-minitive
		-

chesoute	
O zave	
a primitive Dis include all the fundamental	-> Application of array :-
by machine level instructions.	* Andays are particularly used in myors
ig - int, Chax , Keal, boolean	2
that are occurred from I more o.s.	> Linked list of
- Non-primitive 7:3 are provided in the grand	x of the last of the way for
of the state of th	chata in from of list it comprises of a
	multiple, hecles connected to each other
100	though a pointes. There
Avery,	a cach nocke compaises a police while the
the line and ou the date elements are	other got Contain a pointed to the nat
avoinged in a linear Eugenotal of manner.	nocle in the lift.
* In non-linear Dis there is no definite	ist
in whi	tages associated cutets
Oue arranges.	inefficient atilisation of the memory
Stand - (way b.s. control of the standard of t	Apare II such house
	The state of the s
19	to be properly to the second
9	
	- All Cation of Likeli-
ategrs of grp of names	
at array elemats is greproved with	a need of olynamic menory allocations.
Mary and and	-> Stack 3- It is a linear data str
12 6 7 egias Representation	Like Kuch a manner that elements can be
1000	
	ミンファー



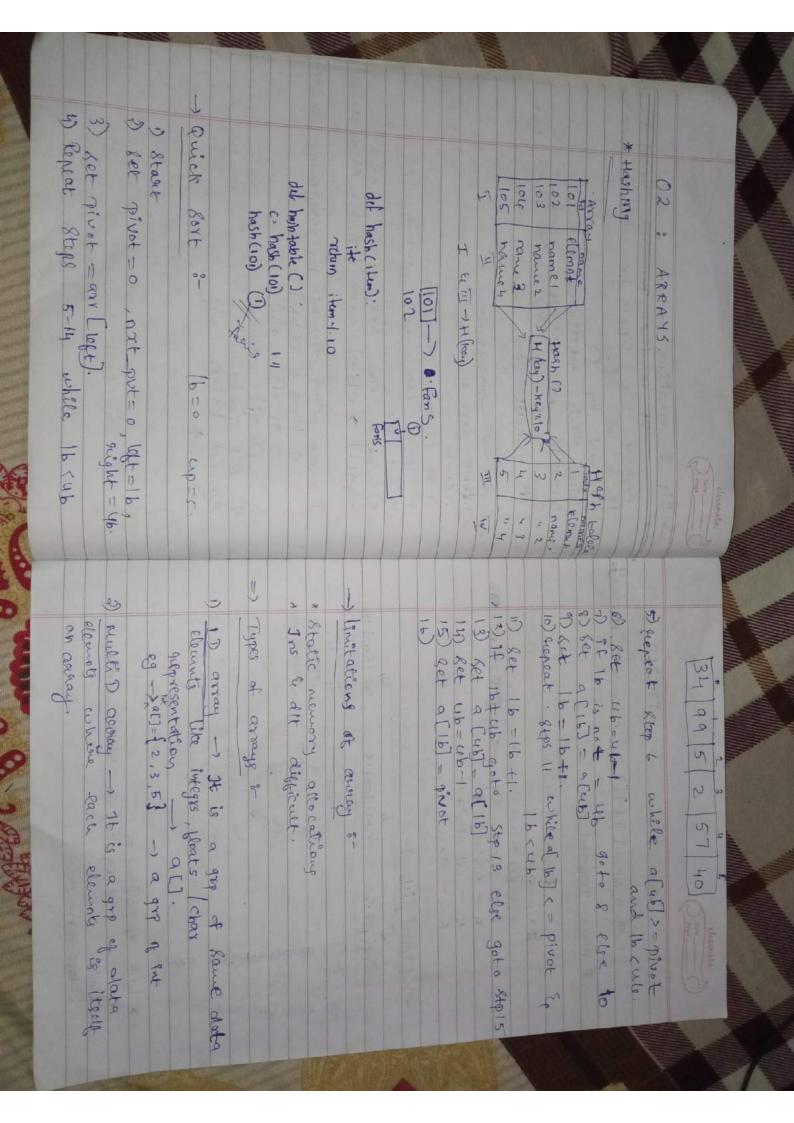


Valle A U = 11	The solves of	Repeat Stps 3-9 whale Pe-limit-		Start	* Insertion Sort :-	1000		fulles that core one one cuted & Equentionly 1nd Hud		provided to a gru patro.			THE PERSON .	Alaceta		inte the cost of	C Trong	King O		- Application of Graph 3-	C. H.	0 10			Chasa-st-
A (0+1) = A (0) //	7.4 (MM4 loop J=J-1 J-0.	COD = COD	-	Industry - J - 1 bushing T = 1	13 july (pop . A (1+1) - A (1)	a(1) = 13	value isiti i=3 val=5 1=2	7"diluakon i=2 val =13 J=1 acj) =aci)=12	J DESIMAL - I MICON	J-J-+ 11 ml be replaced with 12.	inna loop	H(0)=17 17 711 thus:	E	2 6 2	5/1/2/13	-		12/11/13/56	1) Stop.	10) get 1=1+1 = ver	(i) = [i+:] = A[i]		Ket 1 = 1-1	3=1-0=0 1 = 12	through

- Efficiency of algorithman :al yes a gen let of inputs. + whether the algorithm runs baston space complexity is the measure of the surface of memory space of surface of Shepeat stys 6-7 while jon
Sif A[i] of A[min] then min=j
Noter j=j+1
Noter j=j+1
Noter j=j+1
Noter j=j+1
Noter j=j+1
Noter j=j+1 contest of algorithmuns it points as ket of inputs. of memory space. 2 aspects hepeat stys 3-9 cutile i<n-1 Kort * Using this notation are can form the form the more spessible amount of the flat and fall will take to * Byppic Soxt :- arrays :-8) Set = i-1

8) Set = i+1

10) <840p. Spaceat 8tps 6-8 while is it deso 8+p 8. in Set j=10 3) De := 8:20 1 =0 , temp=0 J Swap 1) Start i) temp = acj+i] notation :- nothed the elements by performing bellow sto of sunning used to



			3) satting traversal.
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of; - (array)	-> ins at beginning;		
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(P) 6+2		BUTTO OF B	M
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acij	Sec.		PP
	Ket 1=4	Table lands and a	Part of the same
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, K, P)	(4. W. (NOW) ARAPINI	a -addr.	The second secon
array ins at a specific points	=> Algorithm has an	Doubly L'S	Lingly L.S Conculantis
		4	TIENT MALE
Start I Truz Dr.	set start =		13/10/00/00/00/00/00/00/00/00/00/00/00/00/
TREE CONTRACTOR START	else and the last	8 13 10	6 - 8top
D=Nath	set nout (8 taxt) = Nall	10 mm 100	- Ket ?
E WNODE	Set Start IN		H - ACCENT A (18)
then	3) if spart = nell then	pass will have	3 - Elephone Sty 4-5
Vone >= Tem	2) set data (wew None) = Tem	BI WAR CO	2 - Ket 1=0
3)	School New North		BI - Spart Cally NJ.
nocle +Next;			
	Mar State Noor		-> Array Traversel :-
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