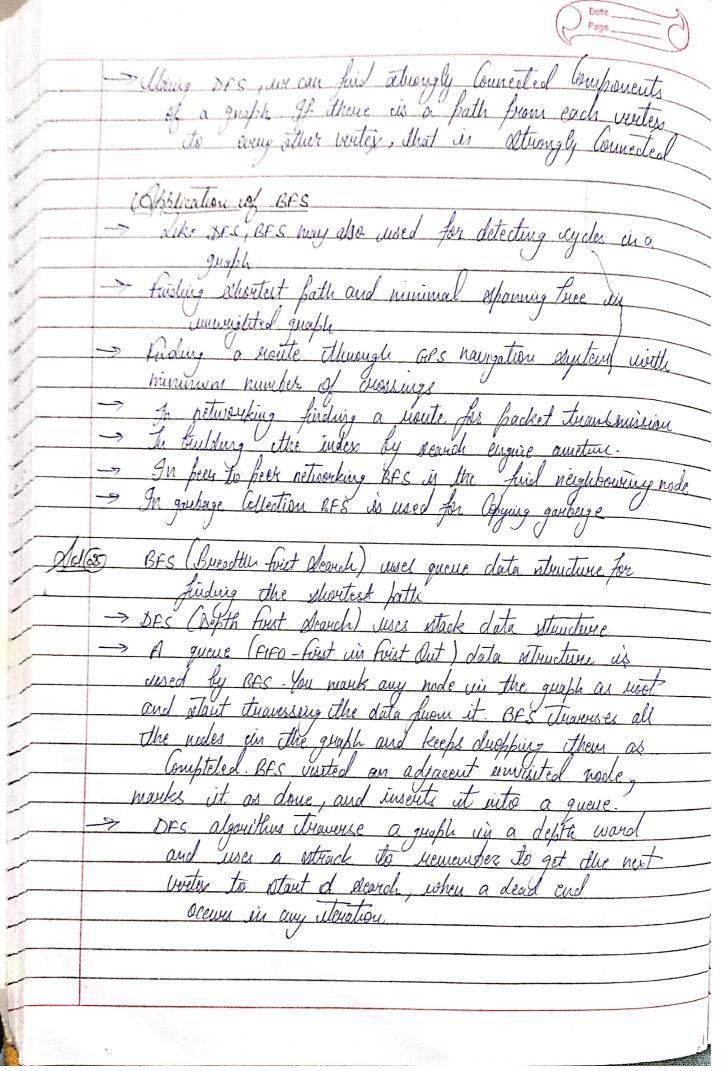
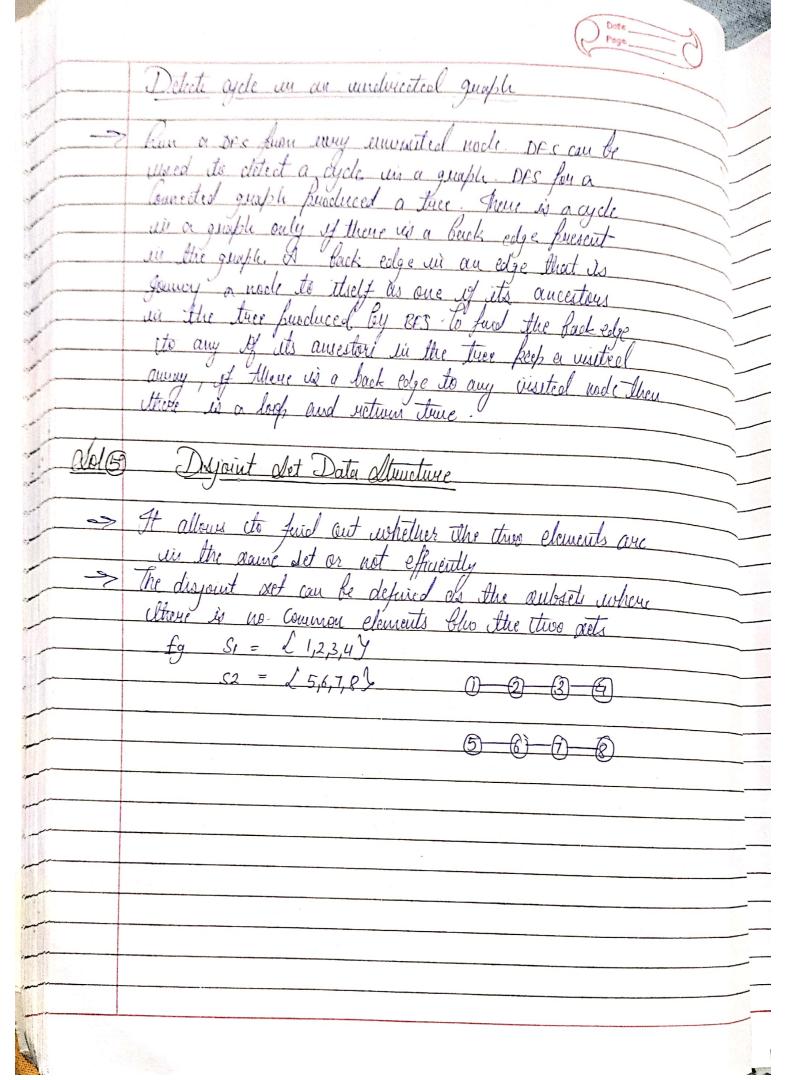
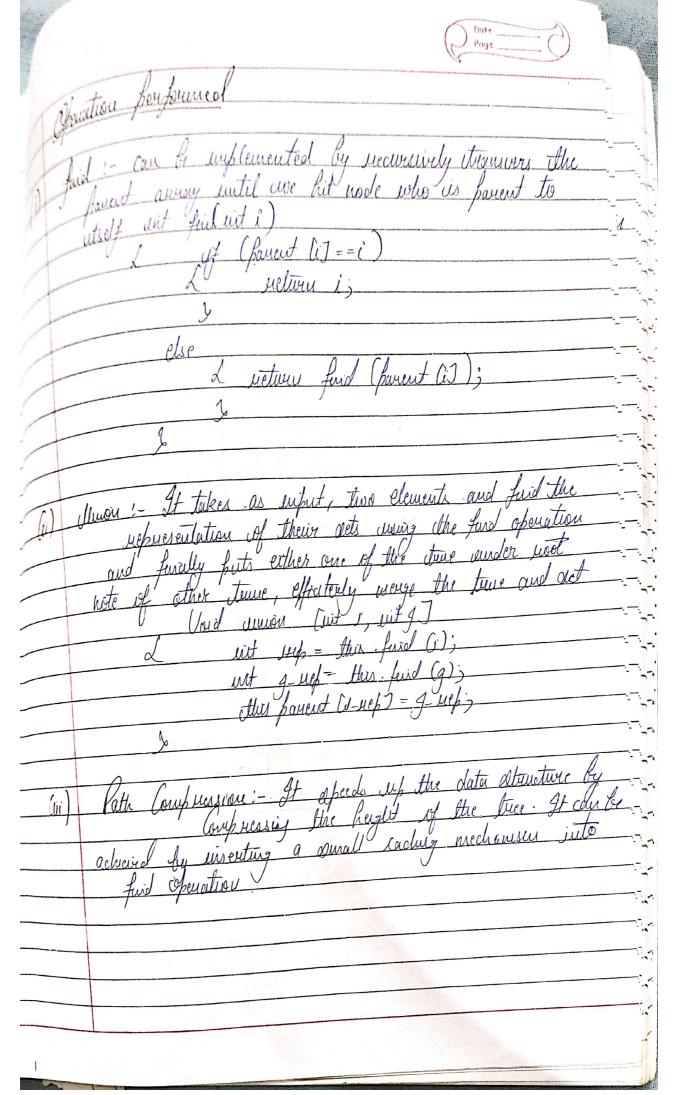
	LUTORIAL - 5		
110	BES	DES	
101(1)	> BES stands for breadth	-> DFs stande for depth fruit -	
The state of the s	first downer.	Clearch -	
	-> BF & cluses queue to find the	Tops uses stock to find	
and the second s	Shordest Bath.	the shoulest path	
No. of Contract of	-> BES is better when target	-> DFs is better when Target	
and the same of th	in closer to mource	is far from source.	
And the state of t	-> Re BE c consider all	> DES is wore suitable for	
and the same of th	I will to it is not	decision, we need to Traverse	
Constitution of the second	Juitable for decision tree	farther to argument the	
	used in puzzle games	decision. If we neach the	
and the same of th		Conclusion to to the	
		-> DFS is faster than BFS	
	-> TC w BFS = O(VIE) where!	-> TC of DFS W and UCUTE)	
	v is vertices and F is	where Vis vertices and Ein	
	Pdges	edges.	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Applications of DFS:-	on unwerstited quaph Then	
	-> GF WE BEHFOUR DES	on unweighted graph, Then we spanning Thee for all	
	hair shoutest bath three		
	> 1.7 can detect ayeles	s un a graph loving DFS of	
	pair shortest path three.  The san soletest sycles un a graph swing DFS II  we get one back-edge dwing BFS, then there must  be one cycle.  Thing DFS we can feid fath between Two given  writices is and in stoletoired whether in speed to scheduling		
	le que cycle.		
	-> Using DFS WH Can fe	id fath between duo given	
	verticel yand		
	Truticel II and V  The can beyform topological storting us used to scheduling  gobs from guin defendancies among gobs. Topological  sorting can be done using DFS algorithm.		
bj.	gobs from guin dependan	cies among good copological	
	goetting can be done usur	g DES alyonimus.	

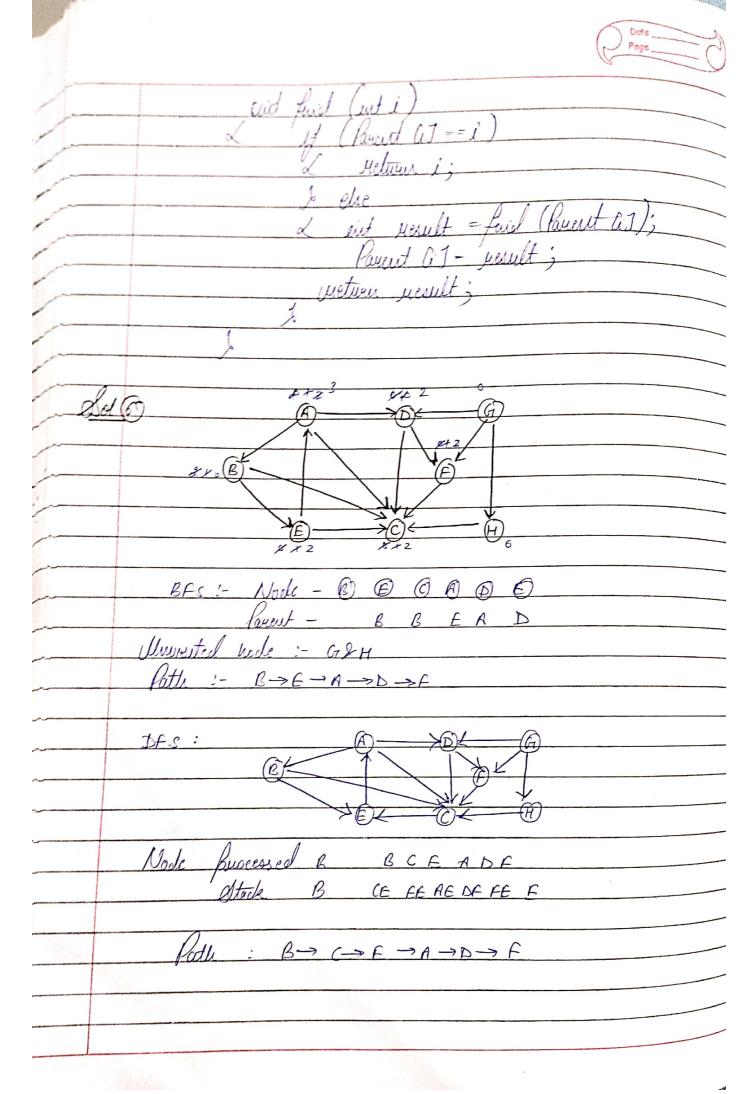


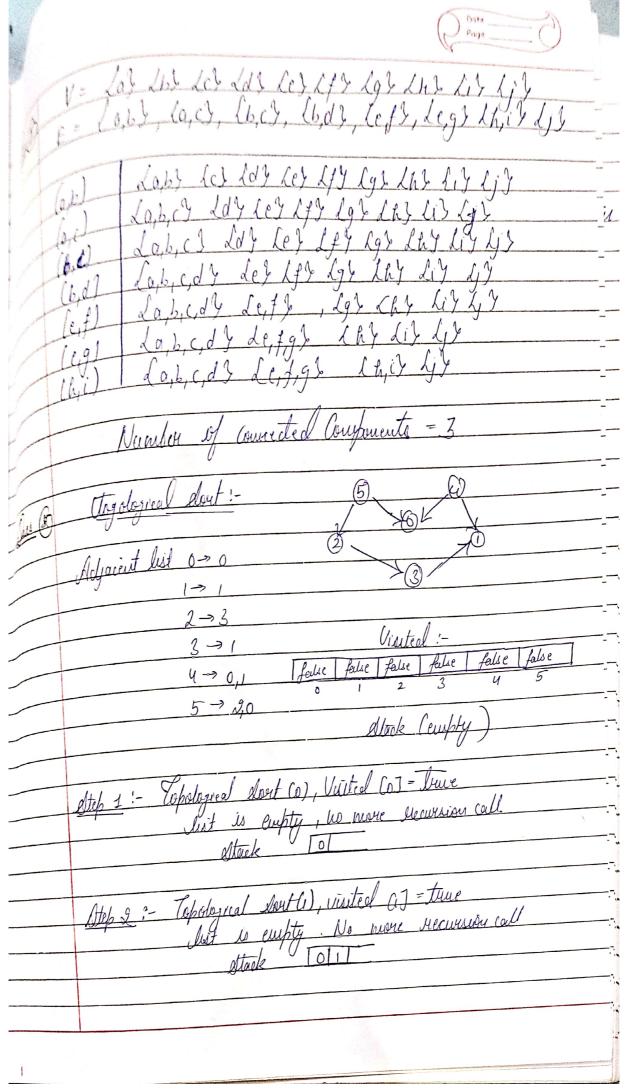


A A A A A A A A A A A A A A A A A A A	Manse Guaph :- A graph in which the number of edges us much dear than the fourthe number of edges  Douse Graph:- A deuse quaph is a graph in white the  number of edges is close to the waxiwal
100-	is much down the fourthe number of edges -
AL CO	Truse Graph: - A deuse quaph is a graph in which the
A CONTRACTOR OF THE PARTY OF TH	number of edger is close to the waxiwal
A STATE OF THE PARTY OF THE PAR	number of edges.
A STATE OF THE PARTY OF THE PAR	If the edge graph is sparse, we should stone it as
Service Control of the Control of th	Tunder of edges  I the edge graph is sparse, we should store it as  a dist of edge. Alternatively, if the graph is druse,  we should ature it as adjacency matrix
	we should store it as adjacency making
And the second	1-41. Luindweated -
1160	The existence of a cycle in aneded and promises
149	graph can be determined by whenver upon from
	(DES) finds an edge that points to an other Back -
	The existence of a cycle vin directed and windwested  großh can be determined by whether depth-first granch  (DFS) fends an edge That points to an ancestors of  the awreat vertex lit Contains a back edge). At the back  odges which DFS skips ones our part of Cycles
	- dgcs Which DFS Disips the T
	A Détect aydes un a directeal fraph
	7 Data year
	The a councided quaph produces a tree There is a cycle
	In a graph only if there is a back edge and in
	the tree produced by DFG
	of for a discounceded quaph, got the DEC forest as Output
	it lite to cucle check for a cycle the man book track
	Checking back edge to detect a back edge, keep constant.
	for DES how voiced. If a writer is reached that is
	At Menucialism Whock, when are
	already in the tree elle stack of annay to keep brack
	of written in inconstron stack.
	I My Description of the second









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- Andrew	appropriate the following of the second
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A CONTRACTOR OF THE PARTY OF TH	step 4 - Repolarical sout (4), insited (4) - time
and the same of th	
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- Taranta	the state of the s
And the second	the [01/13/214]
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Service Control of the Control of th	Att 5: - Telegrand doet (5) winted (5) - time
And the second	Alto 5: - Topological doct (5), visited (5) - time
and the same of th	27 67 are oberedy truted the west movemental
	Stack [01/13/2/4/5]
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-	
-	Step 6: - Count all clonents of strate from to to be
No. of Contract of	Stupe: - Court all clownets of which from top the bottom
- Comment	5, 4, 2, 3, 1, 0
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