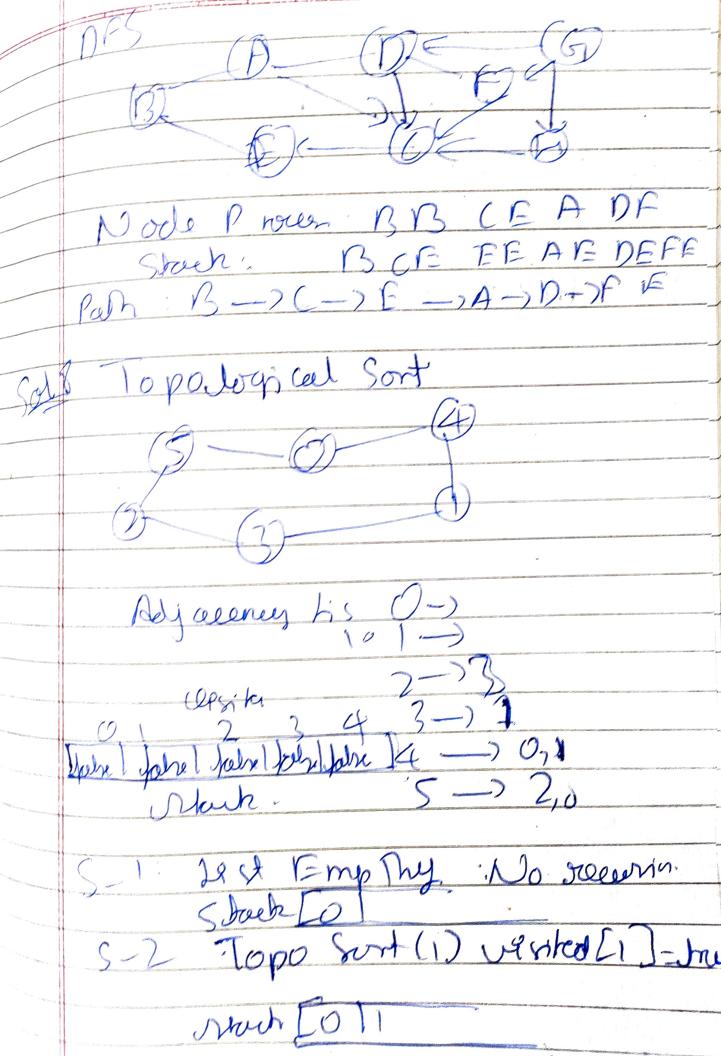
	Trakhar Pande	
	DAA Jutorial 5	Page
	See-D 201906	
	See-D 2016906 Juboral-	5
	, 550 7, 550 7	N
\sim	RES	000
501	BFS	FS 1
1	DEC at la l	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
7)	BFS, stands for Bredlin First South	DFS, stonds for
	15 really 17rst South	Depth First Search.
	0.00	1
. 2)	13th were queue to	DFS wer Stak
	BFS were queue to And The shortest path	DFS user Stake Joshad Dre shorter
		-
2	BFS Is better when	DFS 95 more
	Jarget is closer to	ruitable for
	Sowil-	decision dree.
		As with one
		deil son we now
		to transfer further
		to transfer further
	(-)	
;) Stolvor á BFS js	DFS 3s fast er Man
	slower shor DFS	BF\$.
	Tologo	71 00000 -100
7	ohere V 15 vortion	OCUTE) who
	where V is vertices	Vis vertices of
		V15 Vente

Application of OFS. Then it will create minimum spanning week por shortweeth path tree. DFS. If we get one book-color during BFS, Then There must be one cycle. Applications of BFS -) Like DFS, BFS may also used for detecting ayder In a graph. Firsty shortest path & minimal sparning tree In un werghted groph. In huilding the Index by scorch enoring crawlors. BFS user queux data structure for finding shortest path. DFS wer stack data structure. DFS algore him traverson a graph In a depth ward notion e uses a stake No remember to get The nex I vertex to start a rearch, when a dead end ours In any advation

De Sparre Grans: A graph In which runber of edgers is much less than the possible number of edger. Dense Graph: is one In which The number of odept is done to the maximal number of odejes The exts bene of a cycle in directed a cycle in directed whether property in an edept their points to an ancertors of current vertex. All the book celejer which DFS skaps are part of cycles. Detect Cycle 9n deched Ovaph. DFS cen be bour to detect a cycle In a graph DFS 95 for a connected graph produce a hee for a das connected graph The DFS for an occupit he debectages. Their for a cepte an Inola viderell Run a DFS from every un visited rude. NFS can be und to dotect a apple In a graph. ofhere is a

		PAGE DATE
		cycle and ograph only if More 95a back edge present an graph.
_{ar} izaarisee	m (
general de	15	Desjoint set Data Strutus
- H	-	how elements are go same set or not
J J		Collected Collection Fx: S1 = 21,7,7 11.
_ محدر _		57=256,784
گرر — أمر		(1)-000
"مر نرر		5 (0 0 0
	Q6	Q 6
12112		Node: O (E) (C) (A) (D) (E)
135		Part : B -> F -> A -> D -> F
13000		
for the same		



PAGE Topodogical Sort (2), ugsikel [2]-Ju Stock 5/1/2/12 Topo bort (5), vis + [5] = hrue. Nach [0] 1212 1:17 Pront all The dements.