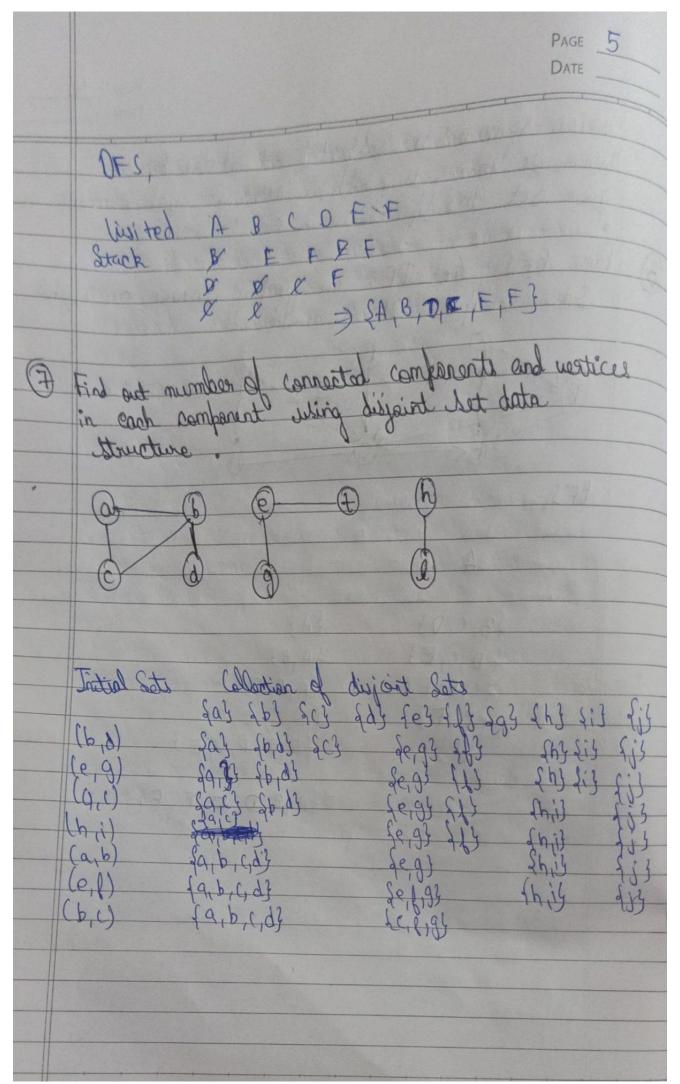
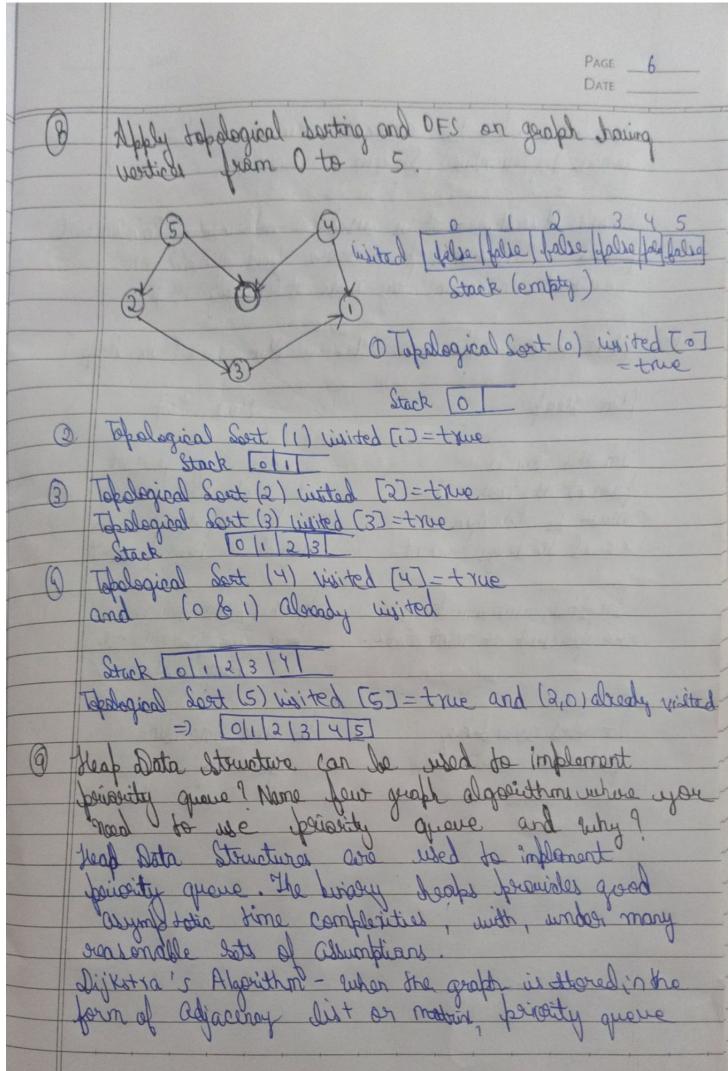
	NAME - DEEPTI PANDEY SECTION - CST SPL I CLASS ROLL NO - 21 UNIVERSITY ROLL NO - 2016724	PAGE 1 DATE
	Tudorial - 5	
0	What is difference between DFS BFS. Please write the applications of the algorithms. DFS BFS DFS stands for BFS stands DFS stands for Breadth First Search DFS uses Stack DFS uses Stack	Structure
	DFS algorithm is a In BFS, to seekth was that uses the idea of backtracking	ere
	DES requires BES regin loss mornary mare memo	Isal
	there children are the silling the silling	gs ore

		PAGE 2 DATE
2)	Which data structures are used to impleated and DFS and ruby?	le mont BFS
	Owene is used to for BES. It cam only newtown beginning. Our Those data are considered inherently "fair". The FIFE winderlies a Queue will ensure that it more discovered first will be explained	add pop by Structures Concept that roose things Loved furth.
	DFS alpoidhm is a recurring algorithm the idea of backtracking. It translates a graph in a depthwe motion and was a stack to remain got the ment worten to start a whom a dead end occurs in any	los to
	What do you mean by share and graph I which representation of graph for example trees in this Members of edges is in Oln) where is sometimed for example is in Oln) where is sometimed for the other hand are do minerted for these graphs, the numbers of edges is in Oln) where is subtrees.	

PAGE 3 How can you totat a cycle in a graph whing BFS and DFS? Using 8 FS to detect a cycle- There is a I visited list, so when I reading the neighbors of ourset hade and if the masses maghbor made is found which was wited before that more indicates that a Dook has been found. Using DFS to dotact a cycle - The graph has a back agae if and only if there exists a back edge is am edge which is from a node to itself or one of its deriving arcords in the tree produced by DFS deriving a pycle. What do you mean by difficient set date Structure?
Posterioring the individual inte different elete
according to the groups in which they fall
This mothed is known as disjoint let data structure which maintain I collection lestreserger i tel dans has the tel trieffet for the by det by and it hisher evitations explained by mambers. And disjoint last are usian, find as Make Set where are as follows: Intersection of Jua sets. As sets are disjoint its Morays ompty unless there has windered

	PAGE 4 DATE
	union of two sets - Supported out of the box Enumerate the set which is resting each element in gion set this depends again on implementation
(b)	Rum BFS and DFS on graph Shown on right Side (Graph with 8 vertices).
	BFS, A
	$\{8, (,0)\}$ $\{A\}$ $\{0, (,E)\}$ $\{A, B, B\}$ $\{(,E,F)\}$ $\{A, B, O\}$ $\{F,F\}$ $\{A, B, O, C\}$
	$\{F\}$ $\{A_1B,P,C_1E\}$ $\{A_1B,D,C_1E\}$





can be used to entract minimum efficiency when Implementing Difference algorithm. Prism's Algorithm It is used to implementing implement prism's algorithm to store keys of nodes and entract minimum key node at every step. 10) What is the difference between Nin and Man Keep? Man Has Min Heap In this key present at root node must In this key is present at host node be greater than or must be low than on equal to keys present equal to keys present In this, minimum keys are prosent at root node In this, marinum keys are present at Post nade It was awarding It was descerding phiesieg