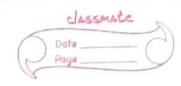
	TUTORIAL-5
01	Difforentiate D/W BFS & DFS
Ang I	BFS OFS
	Stander for Breadth Stander for Optil
	first search. first search.
	BFS was greve to It was stock to and
	find the shortest shortest forth.
	forther
	BFS is botton upon DFS is botton when
	toget is chosen toget is for from
	to nounce.
	As BFS consider all DFS is more quitable
	neighbour so it is for decision tose.
	not quitale for
	Seciolor.
	BFS is source OFS is footo than
	than OFS. BFS.
	SOMAN UIS
	1000 a tier of DFS:
	This DES on can find both Cotrum
	Application of DFS: Using DFS are can find fath between two reactices.
	the can write ? is upod to are duling ide.
,	We can use OFS to detect cycles:
	Ne can use its go well again
	Ann- tion of BEC:
	Application of BFS:
	BFS may also used to detect cycles. His Firding shortest fath and minimal
	Parany shows fur wa mound
	farring toco.
	In notwork finding a noute for facket.
	TOCOMOSION.

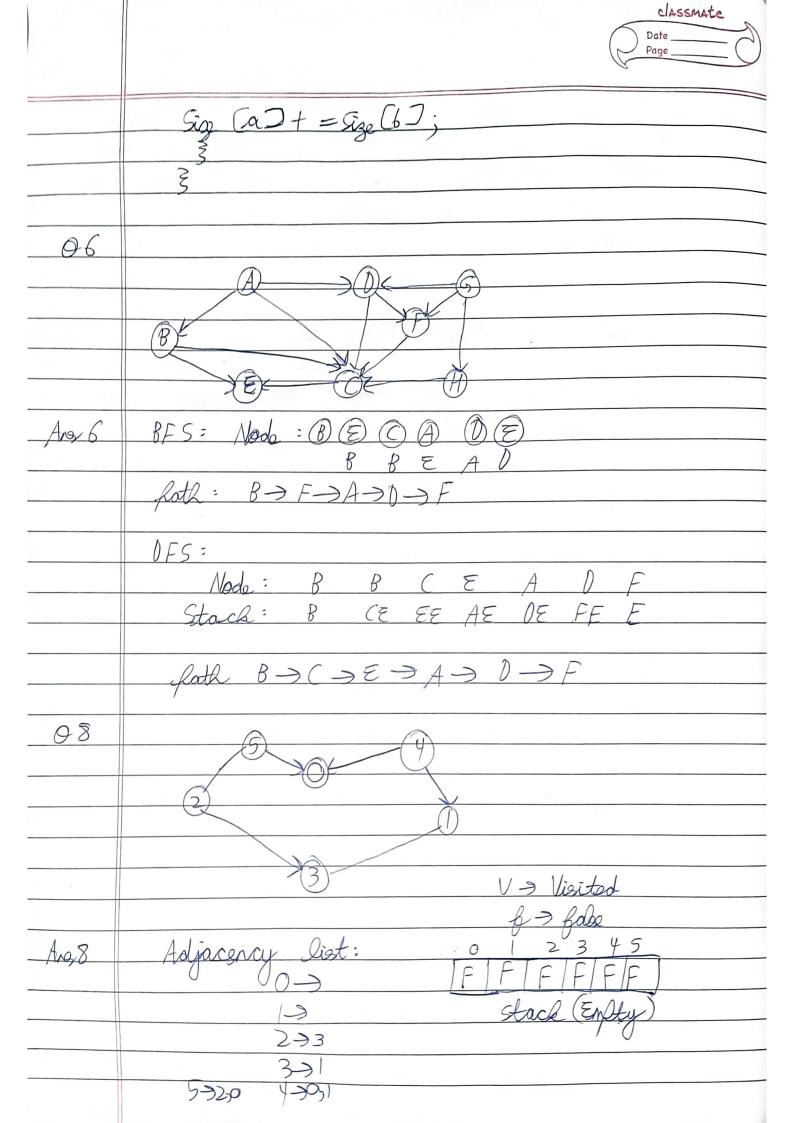
Ang 2 BFS upd Onene data stanctive. BFS you more any mode in sperfl so source another to another in sperfl and beefer so composted.

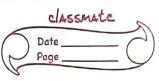
BES visited an adjacent unvisited modes mades it as done and insert it into Ouero. DFS was stack a graffe in a defth world, motion and was stack to sevente to get the nort verter to start to a search, under a dead on occurs in any iteration. Ans 3 Lære graft: A graft in mlich the number of edges number of edge. Derse graff: A graff uflich the number of edges. The movinal no of edges.

If the graff is sposse, we fould store it so list of edges. Ang 4 DFS can be used to detect sight in a geafle DFS. DFS for corrected geafle freduces a torce. Hore is a cycle in graffe. A backedge in an edge that is form a node to itself or out of itse arcestor in the tope produces by OFS.



	BFS can also be used cyclos. Besporn
	BFS unile Beofing a list of foresions
	male while property the state of providing
	nodos at each node - Visited or doe
	that is sheady mored by BFS.
	I founded a cycles.
1 -	
Ara 5	D= 2-2-1 1 D-1 1- 1- 1-
	Disjoint set Data structure:
	It allows to find out wolfer the
	two dements some in the same sot
	or as not ficiently.
	0 -515242
	5, = 2, 2, 3, 42
	9 9 $5_1 = 55,6,7,83$
	(q)
	8
	Mantin Consend.
	Rescotion feegormed: D find int find (V)
	if (V = = front [V])
	gotuan Vi
	setuen freent [V] = find (fasont [V]);
	Jerus pares a grand gran
	Urionz:
	Void union (int a, int b) {
	a = Bird(a)
	6 = Bird (b)
	ih (a/- b)
	if (Size [a] < size [b])
	2 Sugl (A, b) 3
	Rosert BJ = a;





	Stock (5) Sout [0], reigited (0):-four
	and the second s
	Store Toldogical Sout [] Disited [] = four
	Stack TOTT
	Stol 3: Tolo Coaisal Coat (2) Visited (2) = tous;
	Stof 3: Tolofogical Soct (2) Visited (2) = tere; Tolofogical Soct (3) Visited (3) = torus; Stack (0) 1/3/2 -
	Stack 011321
	1/
	Stock 6/1/3/2/4/.
	Stack 0 11 3 2 2 11
	Stoff 5:
	Stof 5: Stack [0/1/3/2/4/5]
	Stop 6: Paint all elements of stack from
	La Lo Gotton
	-> 5 ₁ 4 ₁ 2 ₁ 3 ₁ 1,0
A 10	
Dro do	Min loal
-	In min book the boy In more loak the
	locasent at goot all proget as since
	node must las lass mode must la reflective
	among the beign bey focusent the sol
	1 Andrews Andrews
	Upod to recending less sharending priority.
	Porrosity-



,	The minimum sey propert The more sey possent at the good node.
	at the good node- at the good node.
,	