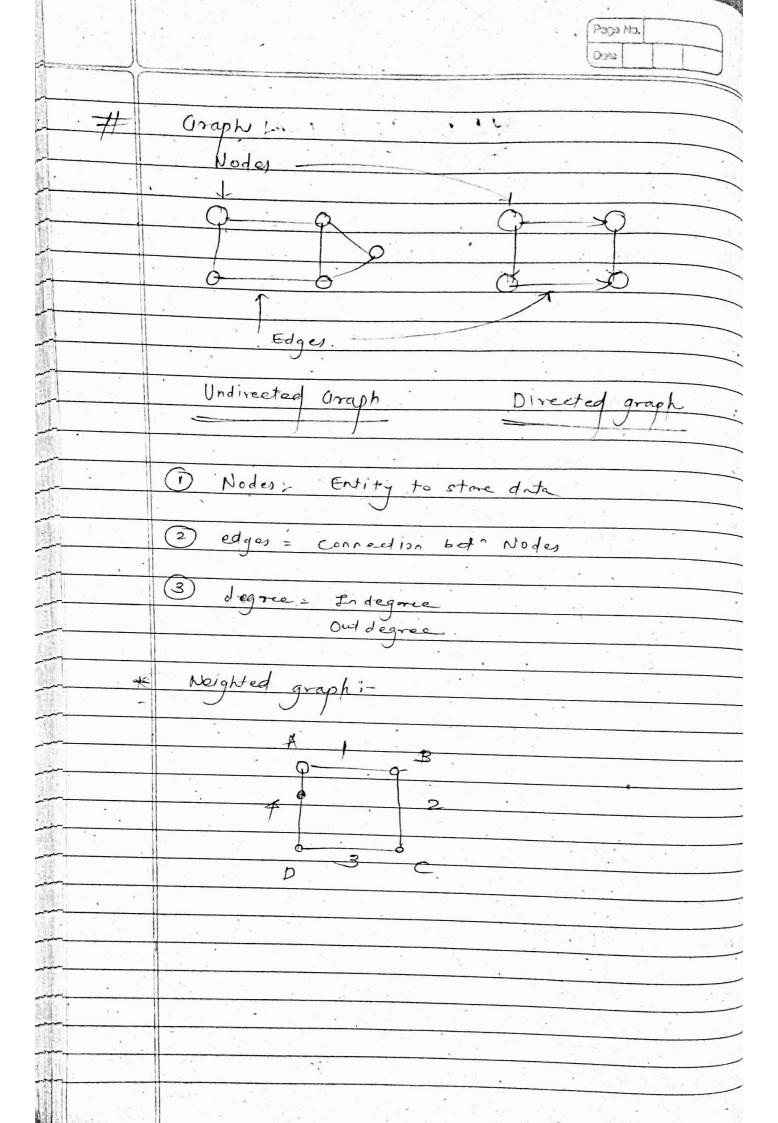
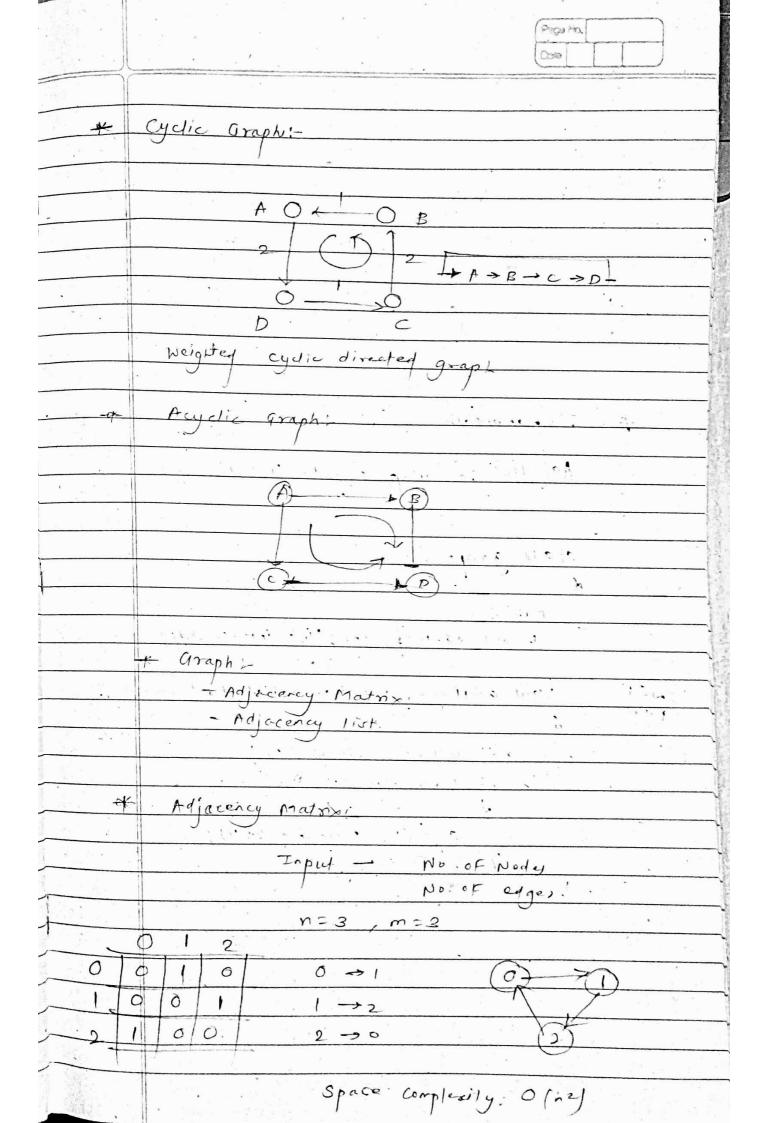
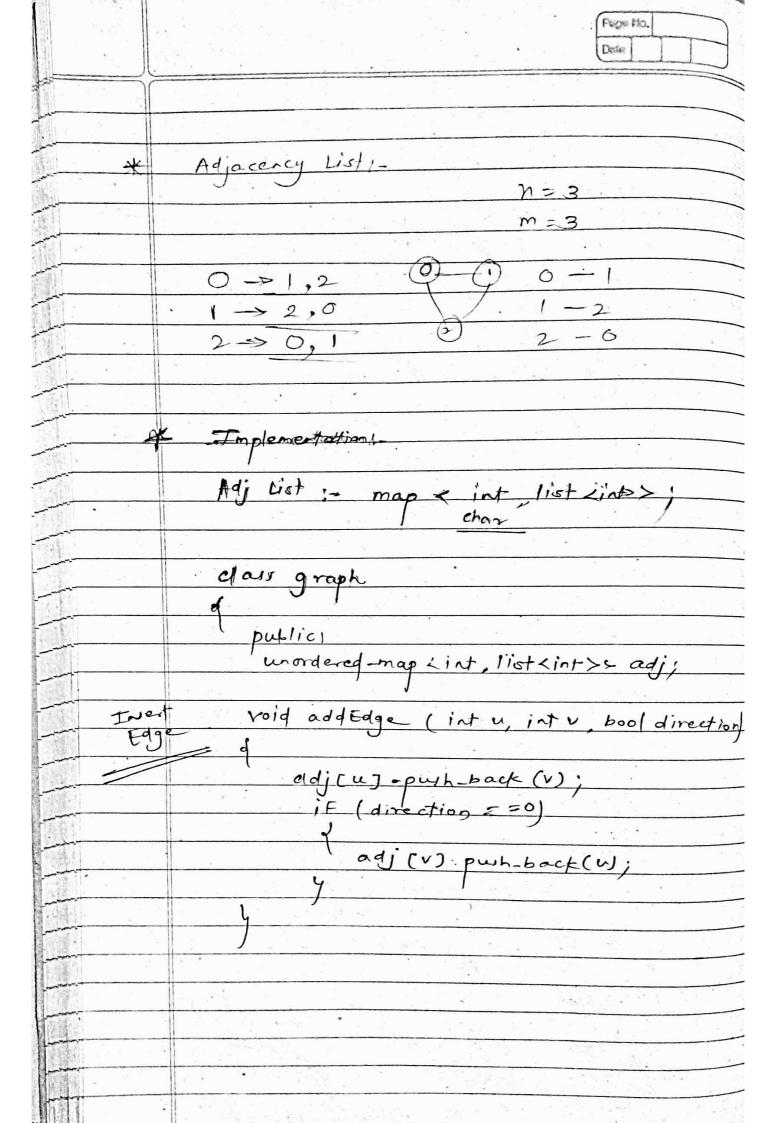
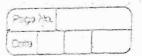
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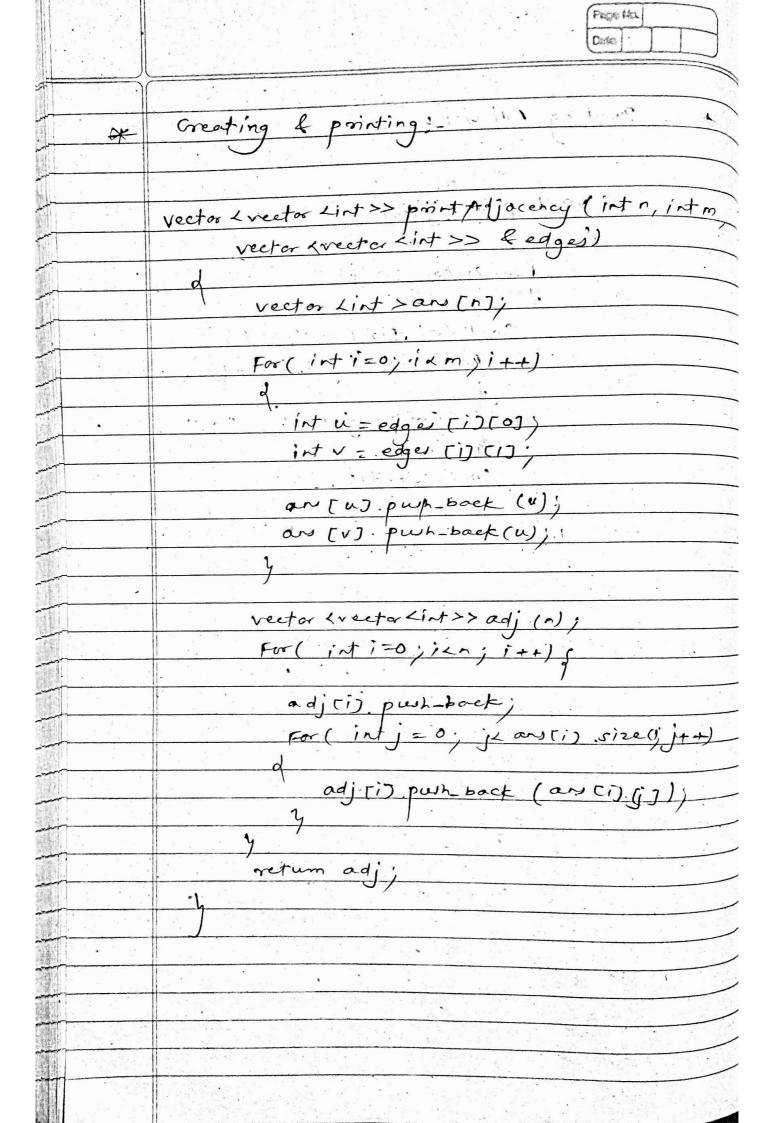








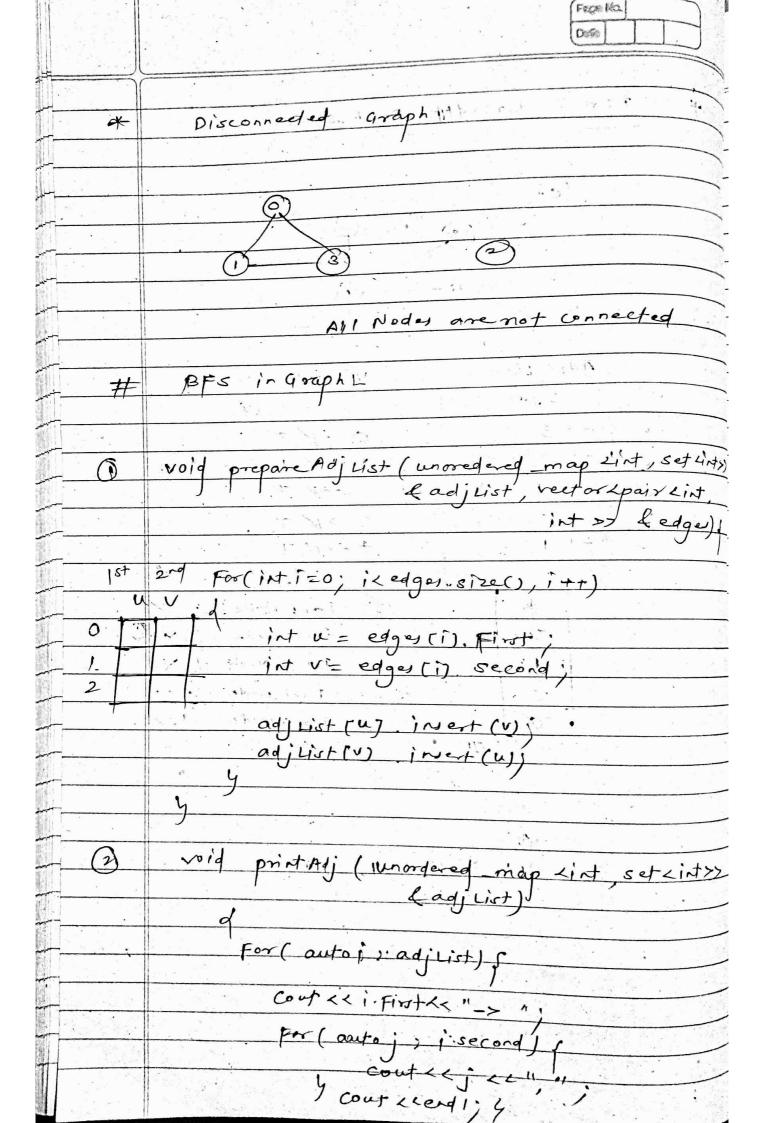
*	Printing Adjusti:
p ==	
	· void printadj tist ()
	d'and and a second a
	For (auto i : adj)
at 1	d
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-9	\$FS - Breadth First search !
	(0)
	(3)
	(4)
*	
	Adj List Visited Node
11 4 4 4	<b>6 9</b>
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
· ·	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
•	14→1 4→PT
	* Front Node= 0, X
	Fort Node = 3 X
	* Front, Node = 1 X
	Fort Mide = 2 X
1.14	Front Node = 4 x
1	
-	$an \rightarrow 0, 3.4, 2.4$
4	

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more turn



V	Proga tts.
	11 is ladiid
_3	void bFS ( windered map xint set Lints & Radjuist
	unorderd-map zint, bool > & visited,
	vector Lint's fan,
	int node)
	queue Lint > q;
	g. push (node);
3	Visited [node] = 1)
•	
1	while (19. empty())
	int Front Node = q. Front ();
(2)	9.00
(4)	ans. push_back [Front Node] ?
· (E)	To Cauta is adilist [ For 1 ) al 7) (
	For (auto it: adj List [Front Node]) {  iF (! visited [i) ) {
	9. muh (i)
· · · · ·	· visited (i)=1;
	4
	3
	<b>4</b>
<b>4</b>	resta dista per lista de
	vector Lint > BFS (int vertex, vector coar Lint,
ñ	int >> edges)!
ng F	unordered map kint, set kint > adjuict;
1 1	vector Lints an;
14.	unordered_map Lint, bool > visited.
	preparAdj List ( adj List, edges);
	For (intizo; is vertex; i++)
	If (!visited [i))
	bFs (adjust, vicited ans, i);
44	neturn and

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First Search
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3-7
il : : - + - T
df-s(0)
dfs(2)
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dFs(2)
15(4)
An= 0,2,1,3,4
is a factorial transfer of the

2,3,,,,,, (1) dfs(2): 1 .... dFS( 1) dfs(3) 9F3(4)

2-0,1114 4 4 1 1 1 1 1

DFS TravesalL.

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Depth First . Search ...

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in a far at a map

	Carra
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	* Implementation!
	i to be to the interpretation by the state
1 4	vector Lint >> depth First search (
	int V, int E vector Lveet or Lint>>
**	(edges)
V 3	i d
r fa	unordered_map: Lint, list < Int > adj;
	For (int i=0) itedges size(); i++)
	int u int
NO	lit-v= edges[i][i]
ii	[N = eages[1][1]]
tu.	preeted adj tu j push-back (v);
9	
	adj [v]. push-back (u) j
·	
pe	out - vector Exector Lint >>an;
ท่า	ited map > unordered-map lint, bool > visited
; = 1 · · · · · · · · · · · · · · · · · ·	
	Foo (int i=0; i < V; i++) {
•	if ( ! Visited [ i])
mo	des (i, visited, adjust, component)
df	
	an push-bock (component).
•	4)
	return an;
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fr.	
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		contain the second of the seco
	*	void des (int nade, wordered map Lint, books
		2 visites, word and map cint
		1 ist wint >> Radis
		vector Lint > component)
	1	
Ш		component, puish back (node)
		· Visted [node] = true;
	-	
		For ( outo i: adj(Node)) j
	-	··iF (I visited [17))
4	-	
4	-	dFs (i, visited, adj, component);
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